

## U.S. PURCHASERS' QUESTIONNAIRE

### ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE FROM KOREA

This questionnaire must be received by the Commission by **November 30, 2020**  
*See last page for filing instructions.*

The information called for in this questionnaire is for use by the United States International Trade Commission in connection with its antidumping investigation concerning ultra-high molecular weight polyethylene ("UHMWPE") from Korea (inv. No. 731-TA-1474 (Final)). The information requested in the questionnaire is requested under the authority of the Tariff Act of 1930, title VII. This report is mandatory and failure to reply as directed can result in a subpoena or other order to compel the submission of records or information in your possession (19 U.S.C. § 1333(a)). Further information on this questionnaire can be obtained from Kyle Westmoreland (202-205-2184, [Kyle.Westmoreland@usitc.gov](mailto:Kyle.Westmoreland@usitc.gov))

<b>Name of firm</b> _____
<b>Address</b> _____
<b>City</b> _____ <b>State</b> _____ <b>Zip Code</b> _____
<b>Website</b> _____
Has your firm purchased, or imported for its own use, UHMWPE (as defined on next page) from <u>any</u> source (domestic or foreign) at any time since January 1, 2017?
<input type="checkbox"/> <b>NO</b> (Sign the certification below and promptly return <b>only</b> this page of the questionnaire to the Commission)
<input type="checkbox"/> <b>YES</b> (Complete all parts of the questionnaire, and return the entire questionnaire to the Commission)
<b>Return questionnaire via the U.S. International Trade Commission Drop Box by clicking on the following link: <a href="https://dropbox.usitc.gov/oinv/">https://dropbox.usitc.gov/oinv/</a>. (PIN: <b>UHMWPE</b>)</b>

#### CERTIFICATION

*I certify that the information herein supplied in response to this questionnaire is complete and correct to the best of my knowledge and belief and understand that the information submitted is subject to audit and verification by the Commission. By means of this certification I also grant consent for the Commission, and its employees and contract personnel, to use the information provided in this questionnaire and throughout this proceeding in any other import-injury proceedings conducted by the Commission on the same or similar merchandise.*

*I, the undersigned, acknowledge that information submitted in response to this request for information and throughout this proceeding or other proceedings may be disclosed to and used: (i) by the Commission, its employees and Offices, and contract personnel (a) for developing or maintaining the records of this or a related proceeding, or (b) in internal investigations, audits, reviews, and evaluations relating to the programs, personnel, and operations of the Commission including under 5 U.S.C. Appendix 3; or (ii) by U.S. government employees and contract personnel, solely for cybersecurity purposes. I understand that all contract personnel will sign appropriate nondisclosure agreements.*

\_\_\_\_\_  
Name of Authorized Official

\_\_\_\_\_  
Title of Authorized Official

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Phone

\_\_\_\_\_  
Email address

**PART I.—GENERAL INFORMATION**

**Background.**-- This proceeding was instituted in response to a petition filed effective March 4, 2020, by Celanese Corporation, Irving, Texas. Antidumping duties may be assessed on the subject imports as a result of this proceeding if the Commission makes an affirmative determination of injury, threat, or material retardation, and if the U.S. Department of Commerce ("Commerce") makes an affirmative determination of dumping. Questionnaires and other information pertinent to this proceeding are available at:

[https://www.usitc.gov/investigations/701731/2020/ultra\\_high\\_molecular\\_weight\\_polyethylene\\_korea/final.htm](https://www.usitc.gov/investigations/701731/2020/ultra_high_molecular_weight_polyethylene_korea/final.htm)

**Ultra-High Molecular Weight Polyethylene (UHMWPE).** The merchandise covered by the scope is ultra-high molecular weight polyethylene. Ultra-high molecular weight polyethylene is a linear polyethylene, in granular or powder form is defined by its molecular weight, as defined by Margolie's Equation, of greater than  $1.0 \times 10^6$  g/mol. Ultra-high molecular weight polyethylene may also be defined by its melt mass-flow rate of  $<0.1$  g/10 min, measured at 190 °C and 21.6 kg load, based on the methods and calculations set forth in the International Organization for Standardization (ISO) standards 21304-1 and 21304-2. Ultra-high molecular weight polyethylene has a Chemical Abstract Service (CAS) registry number of 9002-88-4.

The scope includes all ultra-high molecular weight polyethylene in granular or powder forms meeting the above specifications regardless of additives introduced in the manufacturing process. Ultra-high molecular weight polyethylene blended with other products is included in the scope of this investigation where ultra-high molecular weight polyethylene accounts for more than 50 percent, by actual weight, of the blend and the resulting blend maintains a molecular weight, as defined by Margolie's Equation, of greater than  $1.0 \times 10^6$  g/mol and/or a melt mass-flow rate of  $<0.1$  g/10 min.

Excluded from the scope of the investigation is medical-grade ultra-high molecular weight polyethylene. Medical grade ultra-high molecular weight polyethylene has a minimum viscosity of 2000 ml/g at a concentration of 0.02% at 135 °C (275 °F) in decahydronaphthalene and an elongational stress of 0.2 MPa or greater. Medical-grade ultra-high molecular weight polyethylene is further defined by its ash and trace element content, which shall not exceed the following maximum quantities as set forth in ISO-5834-1: Ash (125 mg/kg), titanium (40 mg/kg), calcium (5 mg/kg), chlorine (30 mg/kg), and aluminum (20 mg/kg). ISO 5834-1 further defines medical grade ultra-high molecular weight polyethylene by its particulate matter content, which requires that there shall be no more than three particles of contaminant per  $300 \pm 20$  g tested. Each of the above criteria is calculated based on the standards and methods used in ISO 5834-1.

Ultra-high molecular weight polyethylene is classifiable under the HTSUS statistical reporting numbers 3901.10.1000 and 3901.20.1000. Although the HTSUS statistical reporting numbers and CAS registry number are provided for convenience and customs purposes, the written description of the scope is dispositive.

**Purchaser.**--Any firm engaged, either directly or through a parent company or subsidiary, in purchasing UHMWPE from another firm that produces, imports, or otherwise distributes UHMWPE.

**Reporting of information.**--If information is not readily available from your records, provide carefully prepared estimates. If your firm is completing more than one questionnaire (i.e., a producer, importer, and/or purchaser questionnaire), you need not respond to duplicated questions.

**Confidentiality.**--The commercial and financial data furnished in response to this questionnaire that reveal the individual operations of your firm will be treated as confidential by the Commission to the extent that such data are not otherwise available to the public and will not be disclosed except as may be required by law (see 19 U.S.C. § 1677f). Such confidential information will not be published in a manner that will reveal the individual operations of your firm; however, general characterizations of numerical business proprietary information (such as discussion of trends) will be treated as confidential business information only at the request of the submitter for good cause shown.

**Verification.**--The information submitted in this questionnaire is subject to audit and verification by the Commission. To facilitate possible verification of data, please keep all files, worksheets, and supporting documents used in the preparation of the questionnaire response. Please also retain a copy of the final document that you submit.

**Release of information.**--The information provided by your firm in response to this questionnaire, as well as any other business proprietary information submitted by your firm to the Commission in connection with this proceeding, may become subject to, and released under, the administrative protective order provisions of the Tariff Act of 1930 (19 U.S.C. § 1677f) and section 207.7 of the Commission's Rules of Practice and Procedure (19 CFR § 207.7). This means that certain lawyers and other authorized individuals may temporarily be given access to the information for use in connection with this proceeding or other import-injury proceedings conducted by the Commission on the same or similar merchandise; those individuals would be subject to severe penalties if the information were divulged to unauthorized individuals.

**D-GRIDS tool.**--The Commission has a tool that firms can use to move data from their own MS Excel compilation files into self-contained data tables within this MS Word questionnaire, thereby reducing the amount of cell-by-cell data entry that would be required to complete this form. This tool is a macro-enabled MS Excel file available for download from the Commission's generic questionnaires webpage ([https://www.usitc.gov/trade\\_remedy/question.htm](https://www.usitc.gov/trade_remedy/question.htm)) called the "D-GRIDs tool." Use of this tool to help your firm complete this questionnaire is *optional*. Firms opting to use the D-GRIDs tool to populate their data into this questionnaire will need the D-GRIDs specification sheet PDF file specific to this proceeding (available on the case page which is linked under the "Background" above) which includes the necessary references relating to this questionnaire, as well as the macro-enable MS Excel D-GRIDs tool itself from the generic questionnaires page. More detailed instructions on how to use the D-GRIDs tool are available within the D-GRIDs tool itself.

I-1a. **Establishments covered.**--Provide the name and address of your U.S. establishment(s) covered by this questionnaire, if different from that listed on the cover page. **Firms operating more than one establishment should combine the data for all establishments into a single response.**

**"Establishment"**--Each facility of a firm involved in the purchase of UHMWPE, including auxiliary facilities operated in conjunction with (whether or not physically separate from) such facilities.

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I-1b. **Stock symbol information.**-- If your firm or parent firm is publicly traded, please specify the stock exchange and trading symbol: \_\_\_\_\_.

I-1c. **External counsel.**-- If your firm or parent firm is represented by external counsel in relation to this proceeding, please specify the name of the law firm and the lead attorney(s).

Law firm:	
Lead attorney(s):	

I-2. **Ownership.**--Is your firm owned, in whole or in part, by any other firm?

No       Yes--List the following information, relating to the ultimate parent/owner.

Firm name	Country	Extent of ownership (percent)

I-3. **Related importers/exporters.**--Does your firm have any related firms, either domestic or foreign, which import UHMWPE into the United States or which export UHMWPE to the United States?

No       Yes--List the following information.

<b>Firm name</b>	<b>Country</b>	<b>Affiliation</b>

I-4. **Related producers.**--Does your firm have any related firms, either domestic or foreign, which produce UHMWPE?

No       Yes--List the following information.

<b>Firm name</b>	<b>Country</b>	<b>Affiliation</b>

**PART II.--PURCHASES**

**Contact information.**--Please identify the responsible individual and the manner by which Commission staff may contact that individual regarding the confidential information submitted in this questionnaire.

Name	
Title	
Email	
Telephone	

II-1. **Purchases and imports.**--Report separately your firm's domestic purchases and imports of UHMWPE.

**"Purchase"** – Purchase from a U.S. entity such as a U.S. producer, a U.S. importer, or other U.S. firm.

**"Import"** – Purchase directly from a foreign supplier and your firm is the importer of record.

Item	Calendar year			January-September
	2017	2018	2019	2020
	Quantity (in pounds)			
<b>Purchases of UHMWPE produced in—</b>				
United States				
Korea				
All other countries <sup>1</sup>				
Sources unknown <sup>2</sup>				
Total purchases	0	0	0	0
<b>Imports of UHMWPE from—</b>				
Korea				
All other countries <sup>1</sup>				
Total imports <sup>3</sup>	0	0	0	0
<sup>1</sup> Please identify these countries: _____. <sup>2</sup> Please indicate the firm(s) from which you purchased this merchandise: _____. <sup>3</sup> If your firm imported UHMWPE at any time since January 1, 2017, please also complete and return a U.S. importers' questionnaire in this proceeding.				

II-2. **Changes in purchasing patterns.**--Please indicate how the shares of your firm's purchases of UHMWPE from different sources have changed since January 1, 2017.

Source of purchases	Did not purchase	Decreased	Increased	Constant	Fluctuated	Explanation for trend
United States	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Korea	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All other countries	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sources unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

II-3. **Country knowledge.**--Please indicate the countries of origin with which your firm has experience or information in the UHMWPE market.

United States	Korea	Brazil	Germany	Japan	Netherlands	Other countries	Other countries (specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

II-4. **Supplier identification.**--Please list your firm's **FIVE** largest suppliers for UHMWPE since January 1, 2017. Also, provide the share of the quantity of your firm's total purchases of UHMWPE that each of these suppliers accounted for in 2019.

No.	Supplier's name	City and state	Share of quantity of 2019 purchases
<b>1</b>			%
<b>2</b>			%
<b>3</b>			%
<b>4</b>			%
<b>5</b>			%

**PART III.--MARKET CHARACTERISTICS AND PURCHASING PRACTICES**

III-1. **Firm type.**--Which of the following best describes your firm as a purchaser of UHMWPE (check all that apply)?

End user	Distributor	Other	Describe other
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

*If your firm is a distributor of UHMWPE, please answer questions III-2 and III-3.*

III-2. **Competition for sales.**--Does your firm compete for sales to customers with the manufacturers or importers from which your firm purchases UHMWPE?

No	Yes	If yes, please describe.
<input type="checkbox"/>	<input type="checkbox"/>	

III-3. **Types of customers.**--What are the major types of consumers to which your firm sells UHMWPE?



**If your firm is an end user of UHMWPE, please answer questions III-4 and III-5.**

III-4. **End uses.**--For each product your firm makes using UHMWPE, estimate the percent of your total production cost that is accounted for by UHMWPE and by other inputs (such as labor, energy, and other raw materials). Leave blank if your firm does not make the product.

Product(s)	Share of total cost in each of the product(s) your firm produces accounted for by				Total (should sum to 100.0% across)
	UHMWPE		Other inputs		
Battery separators	%	+	%	=	0.0 %
High performance ballistic fibers or plates	%	+	%	=	0.0 %
Food and beverage storage containers	%	+	%	=	0.0 %
Pipes	%	+	%	=	0.0 %
Materials processing <sup>1</sup>	%	+	%	=	0.0 %
Sports applications <sup>2</sup>	%	+	%	=	0.0 %
Materials handling equipment and systems <sup>3</sup>	%	+	%	=	0.0 %
Rope or other UHMWPE fibers and yarns	%	+	%	=	0.0 %
Paper machines	%	+	%	=	0.0 %
Other <sup>4</sup>	%	+	%	=	0.0 %
<sup>1</sup> Such as rollers, guides, plates, conveyor belts, liners, hoppers, dump trucks, ships' holds, or dock fenders. <sup>2</sup> Such as skis, snowboards, ice skating rinks, or bowling alleys. <sup>3</sup> Including gears, pulleys, and bearings. <sup>4</sup> Please list these products: .					

**III-5. Demand for end-use products.--**

(a) Has the demand for your firm's final products incorporating UHMWPE changed since January 1, 2017?

Product(s)	Increased	No change	Decreased	Fluctuated	No knowledge
Battery separators	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
High performance ballistic fibers or plates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Food and beverage storage containers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pipes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Materials processing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sports applications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Materials handling equipment and systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rope or other UHMWPE fibers and yarns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Paper machines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other <sup>1</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<sup>1</sup> Please list these products: .					

(b) Has this had any effect on your firm's demand for UHMWPE?

No	Yes	Explain
<input type="checkbox"/>	<input type="checkbox"/>	

III-6. **Substitutes.**--Can other products be substituted for UHMWPE?

No                       Yes--Please fill out the table.

	Substitute	End use in which this substitute is used	Have changes in the price of this substitute affected the price for UHMWPE?		
			No	Yes	Explanation
1.			<input type="checkbox"/>	<input type="checkbox"/>	
2.			<input type="checkbox"/>	<input type="checkbox"/>	
3.			<input type="checkbox"/>	<input type="checkbox"/>	

III-7. **Demand trends.**--Indicate how demand within the United States and outside of the United States for UHMWPE has changed since January 1, 2017. Explain any trends and describe the principal factors that have affected these changes in demand.

Market	Overall increase	No change	Overall decrease	Fluctuate with no clear trend	No knowledge	Explanation and factors
Within the United States	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Outside the United States	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

III-8. **Country preferences.**--Do you or your customers ever specifically order UHMWPE from one country in particular over other possible sources of supply?

No	Yes	If yes, identify the countries and explain.
<input type="checkbox"/>	<input type="checkbox"/>	

III-9. **Importance of purchasing domestic product.**--Please fill out the table below, estimating the percentage of your firm's total 2019 purchases of UHMWPE that required UHMWPE produced in the United States.

	<b>Estimated percentage of your firm's total 2019 purchases of UHMWPE</b>
<b>Purchases that did not require domestic product</b>	%
<b>Purchases that were required by law or regulation to be domestic product</b> (e.g., government purchases under "Buy American" provisions)	%
<b>Purchases that were not required by law or regulation, but were required by your customers to be domestic product</b>	%
<b>Purchases that were required to be domestic product for other reasons</b> (explain: _____.)	%
<b>Total</b> (should sum to 100.0%)	<b>0.0 %</b>

III-10. **Conditions of competition.**--

- (a) Is the UHMWPE market subject to business cycles (other than general economy-wide conditions) and/or other conditions of competition distinctive to UHMWPE?

<b>Check all that apply.</b>	<b>Please describe.</b>
<input type="checkbox"/> No	Skip to question III-11.
<input type="checkbox"/> Yes-Business cycles (e.g. seasonal business)	
<input type="checkbox"/> Yes-Other distinctive conditions of competition	

- (b) Have there been any changes in the business cycles or conditions of competition for UHMWPE since January 1, 2017?

<b>No</b>	<b>Yes</b>	<b>If yes, describe.</b>
<input type="checkbox"/>	<input type="checkbox"/>	

III-11. **Decisions based on producer and country-of-origin.**--How often does your firm, and if known, do your customers, make purchasing decisions involving UHMWPE based on its producer or country of origin?

Item	Always	Usually	Sometimes	Never	If at least sometimes, explain.
<b>Decision based on producer</b>					
Your firm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Your customers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Decision based on country of origin</b>					
Your firm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Your customers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

III-12. **Availability of supply.**--Has the availability of UHMWPE in the U.S. market changed since January 1, 2017?

Availability in the U.S. market	No	Yes	Please explain, noting the countries and reasons for the changes.
U.S.-produced product	<input type="checkbox"/>	<input type="checkbox"/>	
Subject imports	<input type="checkbox"/>	<input type="checkbox"/>	
Nonsubject imports	<input type="checkbox"/>	<input type="checkbox"/>	

III-13. **Supply constraints.**--Has any firm refused, declined, or been unable to supply your firm with UHMWPE since January 1, 2017 (examples include placing customers on allocation or "controlled order entry," declining to accept new customers or renew existing customers, delivering less than the quantity promised, being unable to meet timely shipment commitments, etc.)?

No	Yes	If yes, please describe.
<input type="checkbox"/>	<input type="checkbox"/>	

III-14. **Availability of specific product types.**--How Are certain grades/types/sizes of UHMWPE only available from certain country sources?

No	Yes	If yes, please identify the countries and the grade/type/size.
<input type="checkbox"/>	<input type="checkbox"/>	

III-15. **Purchases by packaging.**--Please report whether your firm has purchased domestic UHMWPE and/or subject UHMWPE in the packaging types listed below since January 1, 2017.

Purchases of:	Domestic UHMWPE	Subject UHMWPE
25 kg. or similar size bag	<input type="checkbox"/>	<input type="checkbox"/>
Supersack (500 kg ±10%)	<input type="checkbox"/>	<input type="checkbox"/>
Bulk (truck or railcar)	<input type="checkbox"/>	<input type="checkbox"/>

III-16. **Purchasing frequency.**--

(a) How frequently does your firm make purchases of UHMWPE (check one)?

Daily	Weekly	Monthly	Quarterly	Annually	Other	If other, specify
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

(b) Has this purchasing frequency changed since January 1, 2017?

No	Yes	If yes, please describe.
<input type="checkbox"/>	<input type="checkbox"/>	

III-17. **Raw material prices.**—

(a) Is your firm familiar with the prices for raw materials used in the production of UHMWPE?

No	Yes – please answer (b)
<input type="checkbox"/>	<input type="checkbox"/>

(b) Has information on raw material prices affected your firm's negotiations or contracts to purchase UHMWPE since 2017?

No	Yes	Explain, noting how raw material price changes have affected prices for UHMWPE
<input type="checkbox"/>	<input type="checkbox"/>	

III-18. **Number of suppliers contacted.**--How many suppliers does your firm generally contact before making a purchase? Between \_\_\_\_ and \_\_\_\_ firms

III-19. **Supplier negotiations.**--Do your firm's purchases of UHMWPE usually involve negotiations between supplier and purchaser?

No	Yes	If yes, explain the factors your firm generally negotiates and note whether your firm quotes competing prices during negotiations.
<input type="checkbox"/>	<input type="checkbox"/>	

III-20. **Change in suppliers.**--Has your firm changed suppliers since January 1, 2017?

No	Yes	If yes, please list the supplier(s), whether the firm was added or dropped, and the reasons for the change.
<input type="checkbox"/>	<input type="checkbox"/>	

III-21. **New suppliers.**--Are you aware of any new suppliers, either foreign or domestic, that have entered the market since January 1, 2017?

No	Yes	If yes, please identify the firms.
<input type="checkbox"/>	<input type="checkbox"/>	

III-22. **Supplier qualification.**--Do you require your suppliers to be or to become certified or qualified to sell UHMWPE to your firm?

If yes, provide the following information.

- The number of days to qualify a new supplier.
- A general description of the certification or qualification process. Also, a brief description of the factors that you consider when qualifying a new supplier (e.g., quality of product, reliability of supplier, etc.).

No	Yes	Number of days	Process and factors
<input type="checkbox"/>	<input type="checkbox"/>		

III-23. **Failure to certify.**--Since January 1, 2017, have any domestic or foreign producers failed in their attempts to certify or qualify their UHMWPE with your firm or have any producers lost their approved status?

No	Yes	If yes, please identify these firms, the countries where they are located, and the reasons why they failed the certification/qualification.
<input type="checkbox"/>	<input type="checkbox"/>	



III-24. **Major purchasing factors.**--Please list, in order of their importance, the main factors your firm considers in deciding from whom to purchase UHMWPE (examples include availability, extension of credit, contracts, price, quality, range of supplier's product line, traditional supplier, etc.).

1.	
2.	
3.	
Please list any other factors that are very important in your purchase decisions: _____.	

III-25. **Purchasing factors.**--Please rate the importance of the following factors in your firm's purchasing decisions for UHMWPE.

Factor	Very important	Somewhat important	Not important
Availability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivery terms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivery time	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discounts offered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Minimum quantity requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Packaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Molecular weight	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Payment terms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Price	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product consistency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality meets industry standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality exceeds industry standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reliability of supply	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Technical support/service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U.S. transportation costs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

III-26. **Quality characteristics.**--What characteristics does your firm consider when determining the quality of UHMWPE?

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III-27. **Minimum quality.**--How often does UHMWPE from the following countries meet minimum quality specifications for your uses or your customers' uses?

Source	Always	Usually	Sometimes	Rarely or never	Don't know
United States	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Korea	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

III-28. **Frequency of decisions based on price.**--How often does your firm purchase the UHMWPE that is offered at the lowest price?

Always	Usually	Sometimes	Never
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

III-29. **Price leaders.**--A price leader is defined as (1) one or more firms that initiate a price change, either upward or downward, that is followed by other firms, or (2) one or more firms that have a significant impact on prices. *A price leader is not necessarily the lowest-priced supplier.*

Please list the names of any firms you considered price leaders in the UHMWPE market since January 1, 2017.

<b>Firm(s)</b>	<b>Describe how the firm(s) exhibited price leadership, how price changes are communicated to the market, and any impact announced price changes have on your business operations.</b>

**III-30. Purchasing subject imports rather than domestic products.—**

(a) Since January 2017, did your firm import and/or purchase imports of UHMWPE from Korea instead of purchasing U.S.-produced UHMWPE?

Source	Yes (also respond to parts (b) and (c))	No (If "No", skip to next question)
Korea	<input type="checkbox"/>	<input type="checkbox"/>

(b) If you responded "Yes" to part (a), was the imported product priced lower than the domestic product?

Source	Yes	No
Korea	<input type="checkbox"/>	<input type="checkbox"/>

(c) If you responded "Yes" to part (a), was price a primary reason for importing and/or purchasing subject imports rather than domestic product?

Source	Yes	If Yes, estimate the quantity of imports purchased and/or imported instead of domestic product since January 2017 (in pounds)	No	If No, please indicate the reason your firm imported and/or purchased imports instead of domestic product
Korea	<input type="checkbox"/>		<input type="checkbox"/>	

**III-31. U.S. producers and import competition.—**

(a) Since January 1, 2017, in connection with a sale or offer to sell UHMWPE to your firm, did U.S. producers reduce their prices of domestically produced UHMWPE in order to compete with lower-priced imports of UHMWPE from the subject countries?

Source	Yes (also respond to question part (b))	No (If "No", skip to next question)	Don't know
Korea	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(b) If your firm responded "yes", please provide an estimate of the reduction in U.S. producers' prices, and any additional explanations, such as timing (e.g., months/years), frequency of price reductions, or other market/competitive factors.

Source	Estimated reduction in U.S. prices (percent)	Additional explanation, including such information as timing (e.g., months/years), frequency of price reductions, or other market/competitive factors
Korea	%	

**PART IV.—PRODUCT COMPARISONS**

IV-1. **Interchangeability.**--Is UHMWPE produced in the United States and in other countries interchangeable (i.e., can they physically be used in the same applications)?

Please indicate A, F, S, N, or O in the table below:

A = the products from a specified country-pair are *always* interchangeable

F = the products are *frequently* interchangeable

S = the products are *sometimes* interchangeable

N = the products are *never* interchangeable

O = *no familiarity* with products from a specified country-pair

<b>Country-pair</b>	Korea	Other countries
United States		
Korea	X	
For any country-pair producing UHMWPE which is <i>sometimes</i> or <i>never</i> interchangeable, please identify the country-pair and explain the factors that limit or preclude interchangeable use:		

IV-2. **Factors other than price.**--Are differences other than price (e.g., quality, availability, transportation network, product range, technical support, *etc.*) between UHMWPE produced in the United States and in other countries a significant factor in your firm's purchases of the products?

Please indicate A, F, S, N, or O in the table below:

A = such differences are *always* significant

F = such differences are *frequently* significant

S = such differences are *sometimes* significant

N = such differences are *never* significant

O = *no familiarity* with products from a specified country-pair

<b>Country-pair</b>	Korea	Other countries
United States		
Korea	X	
For any country-pair for which factors other than price <i>always</i> or <i>frequently</i> are a significant factor in your firm's purchases of UHMWPE, identify the country-pair and report the advantages or disadvantages imparted by such factors:		

IV-3. **Factor country comparisons.**--For the factors listed below, please rate how UHMWPE produced in each country you identified in your response to the first question in Part IV compares with UHMWPE produced in each of the other countries you identified.

***If you are unfamiliar with the product from a particular country, please leave the boxes for those country comparisons blank.***

Factor	Product from <u>United States</u> compared to product from <u>Korea</u>			Product from <u>United States</u> compared to product from <u>all other countries</u> <sup>1</sup>			Product from <u>Korea</u> compared to product from <u>all other countries</u>		
	Superior	Comparable	Inferior	Superior	Comparable	Inferior	Superior	Comparable	Inferior
Availability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivery terms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivery time	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discounts offered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Minimum quantity requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Molecular weight	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Packaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Payment terms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Price <sup>2</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product consistency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality meets industry standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality exceeds industry standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reliability of supply	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Technical support/service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U.S. transportation costs <sup>2</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup> If your answers would vary depending on which other country you are comparing, please explain:

<sup>2</sup> A rating of superior on price and U.S. transportation costs indicates that the first country generally has lower prices/U.S. transportation costs than the second country.

**PART V.—ADDITIONAL INFORMATION**

- V-1. **Other explanations.**--If your firm would like to further explain a response to any question that for which a narrative response box was not provided, please note the question number and the explanation in the space provided below.

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- V-2. **OMB statistics.**--Please report the actual number of hours required and the cost to your firm of completing this questionnaire.

Hours	Dollars

The questions in this questionnaire have been reviewed with market participants to ensure that issues of concern are adequately addressed and that data requests are sufficient, meaningful, and as limited as possible. Public reporting burden for this questionnaire is estimated to average 25 hours per response, including the time for reviewing instructions, gathering data, and completing and reviewing the questionnaire.

We welcome comments regarding the accuracy of this burden estimate, suggestions for reducing the burden, and any suggestions for improving this questionnaire. Please attach such comments to your response or send to the Office of Investigations, USITC, 500 E St. SW, Washington, DC 20436.

## HOW TO FILE YOUR QUESTIONNAIRE RESPONSE

This questionnaire is available as a “fillable” form in MS Word format on the Commission’s website at:

[https://www.usitc.gov/investigations/701731/2020/ultra\\_high\\_molecular\\_weight\\_polyethylene\\_korea/final.htm](https://www.usitc.gov/investigations/701731/2020/ultra_high_molecular_weight_polyethylene_korea/final.htm)

***Please do not attempt to modify the format or permissions of the questionnaire document.*** Please submit the completed questionnaire using one of the methods noted below. If your firm is unable to complete the MS Word questionnaire or cannot use one of the electronic methods of submission, please contact the Commission for further instructions.

- **Upload via Secure Drop Box.**—Upload the MS Word questionnaire along with a scanned copy of the signed certification page (page 1) through the Commission’s secure upload facility:

**Web address:** <https://dropbox.usitc.gov/oinv/>      **Pin:** **UHMWPE**

- **E-mail.**—E-mail the MS Word questionnaire to [Kyle.Westmoreland@usitc.gov](mailto:Kyle.Westmoreland@usitc.gov); include a scanned copy of the signed certification page (page 1). *Submitters are strongly encouraged to encrypt nonpublic documents that are electronically transmitted to the Commission to protect your sensitive information from unauthorized disclosure. The USITC secure drop-box system and the Electronic Document Information System (EDIS) use Federal Information Processing Standards (FIPS) 140-2 cryptographic algorithms to encrypt data in transit. Submitting your nonpublic documents by a means that does not use these encryption algorithms (such as by email) may subject your firm’s nonpublic information to unauthorized disclosure during transmission. If you choose a non-encrypted method of electronic transmission, the Commission warns you that the risk of such possible unauthorized disclosure is assumed by you and not by the Commission.*

**If your firm does not purchase this product**, please fill out page 1, print, sign, and submit a scanned copy to the Commission.

***Parties to this proceeding.***—If your firm is a party to this proceeding, it is required to serve a copy of the completed questionnaire on parties to the proceeding that are subject to administrative protective order (see 19 CFR § 207.7). A list of such parties may be obtained from the Commission’s Secretary (202-205-1803). A certificate of service must accompany the completed questionnaire your firm submits (see 19 CFR § 207.7). Service of the questionnaire must be made in paper form.