

# J60-1700-173 Polyethylene Homopolymer

J60-1700-173 is a high density polyethylene homopolymer. This resin is characterized by a narrow molecular weight distribution. Parts fabricated from this material exhibit excellent gloss and rigidity. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

## Typical Properties<sup>1</sup>

	Values		ASTM Method
	English Units	SI Units	
<b>Resin</b>			
Density	—	0.961 g/cc	D4883
Melt Index 190 C/2.16 kg	—	16 g/10 min	D1238
Melt Index 190 C/ 21.6 kg	—	355 g/10 min	D1238
<b>Compression Molded Sample</b>			
<b>Tensile Strength (2 in/min)</b>			D638
@ Yield	4,580 psi	31.6 MPa	
@ Break	2,650 psi	18.3 MPa	
<b>Elongation (2 in/min)</b>			D638
@ Yield	—	8%	
@ Break	—	30%	
<b>Flexural Modulus</b>	184,000 psi	1,270 MPa	D790A
<b>Notched Izod Impact Strength</b>	0.59 ft-lbf/in	3.07 kJ/m <sup>2</sup>	D256
<b>Hardness</b>			D2240
Shore D	62	62	
<b>Heat Deflection Temperature</b>	182 F	83 C	D648
@ 66 psi (454 kPa)			
<b>Environmental Stress Crack Resistance</b>			D1693
Condition B, 100% Igepal, F50 (hrs.)	1.4	1.4	

<sup>1</sup> Typical properties will vary and are not to be used for specification purposes.

Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. As conditions of use may vary and are beyond the control of INEOS Olefins & Polymers USA, no representations or warranty, express or implied, are made with respect to the accuracy, reliability, or completeness of this information. This information in no way modifies, amends, enlarges, or creates any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED. INEOS Olefins & Polymers USA shall not be responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices, or from hazards inherent in the nature of the product and/or material, nor for toxicological effects or Industrial Hygiene associated with particular use of any product described herein. This information relates only to the specific product and/or material designated and may not be valid for such product and/or material used in combination with any other product and/or material or in any process, unless otherwise specified. This information shall not be construed as a recommendation for any use that may infringe any patent, trademark, or the like, or as an endorsement of any material, equipment, service, or other item not supplied by INEOS Olefins & Polymers USA.

The name and logo INEOS are trademarks of the INEOS Group and its affiliated companies and businesses.

2600 South Shore Boulevard, Ste. 500  
League City, TX 77573  
Tel: 281-535-6600  
www.ineos-op.com

**INEOS**  
Olefins & Polymers USA



# J60-1700-173 Polyethylene Homopolymer

## Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, call + 1-800-527-5419.

## Health and Safety Information

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at [www.ineos-op.com](http://www.ineos-op.com). Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

The Material Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS is altered or modified, different shipping descriptions may apply and the MSDS of the original material should not be used.

For additional information, samples, pricing and availability, please contact:

### ***INEOS Olefins & Polymers, USA***

Marina View Building  
2600 South Shore Boulevard  
Suite 500  
League City, Texas 77573  
Phone: +1 281 535 6600  
Fax: +1 281 535 6764  
Customer Service: +1 800 527 5419  
Tech Service: +1 800 338 0489  
[www.ineos-op.com](http://www.ineos-op.com)

Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. As conditions of use may vary and are beyond the control of INEOS Olefins & Polymers USA, no representations or warranty, express or implied, are made with respect to the accuracy, reliability, or completeness of this information. This information in no way modifies, amends, enlarges, or creates any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED. INEOS Olefins & Polymers USA shall not be responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices, or from hazards inherent in the nature of the product and/or material, nor for toxicological effects or Industrial Hygiene associated with particular use of any product described herein. This information relates only to the specific product and/or material designated and may not be valid for such product and/or material used in combination with any other product and/or material or in any process, unless otherwise specified. This information shall not be construed as a recommendation for any use that may infringe any patent, trademark, or the like, or as an endorsement of any material, equipment, service, or other item not supplied by INEOS Olefins & Polymers USA.

The name and logo INEOS are trademarks of the INEOS Group and its affiliated companies and businesses.

2600 South Shore Boulevard, Ste. 500  
League City, TX 77573  
Tel: 281-535-6600  
[www.ineos-op.com](http://www.ineos-op.com)

**INEOS**  
**Olefins & Polymers USA**