

# INEOS HDPE J60-1700-173

High Density Polyethylene  
INEOS Olefins & Polymers USA

Message:

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.

General Information			
Features	Food Contact Acceptable		
	High Density		
	High Gloss		
	High Rigidity		
	Homopolymer		
	Narrow Molecular Weight Distribution		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.961	g/cm <sup>3</sup>	ASTM D4883
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	16	g/10 min	
190°C/21.6 kg	360	g/10 min	
Environmental Stress-Cracking Resistance (100% Igepal, F50)	1.40	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	31.6	MPa	
Break	18.3	MPa	
Tensile Elongation <sup>2</sup>			ASTM D638
Yield	8.0	%	
Break	30	%	
Flexural Modulus	1270	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	31	J/m	ASTM D256
Notched Izod Impact (Area)	3.07	kJ/m <sup>2</sup>	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	83.3	°C	ASTM D648
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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Recommended distributors for this material


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