

INEOS HDPE J60-800-178

High Density Polyethylene

INEOS Olefins & Polymers USA

Message:

J60-800-178 is a high density polyethylene homopolymer intended for the injection molding of beverage closures. Because of its excellent organoleptic properties, this grade is certified as low taste and is intended for use in direct contact with beverages. Parts fabricated from this material exhibit a glossy surface finish and have good impact strength and rigidity. Typical applications include caps and closures for the packaging of still and sparkling water and other injection molded applications where low taste and odor are critical. This material meets the Food and Drug Administration requirements of 21 CFR 177.1520.

General Information			
Features	Excellent Organoleptic Properties		
	Food Contact Acceptable		
	Good Impact Resistance		
	High Density		
	High Gloss		
	Homopolymer		
	Low to No Odor		
	Low to No Taste		
	Medium Rigidity		
Uses	Caps		
	Closures		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.961	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.9	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	4.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	31.4	MPa	
Break	15.8	MPa	

Tensile Elongation ²			ASTM D638
Yield	8.3	%	
Break	940	%	
Flexural Modulus - Tangent	1650	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	38	J/m	ASTM D256
Notched Izod Impact (Area)	3.75	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	78.9	°C	ASTM D648
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	128	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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