

# INEOS HDPE J50-1000-178

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

J50-200-178 is a narrow molecular weight high density polyethylene copolymer intended for the production of closures for beverages by either compression or injection molding. Because of its high purity and excellent organoleptic properties, this grade is certified as low taste and is intended for use in direct contact with beverages. Typical applications include caps and closures for carbonated beverages and water. This material meets the Food and Drug Administration requirements of 21 CFR 177.1520.

General Information			
Features	Copolymer		
	Excellent Organoleptic Properties		
	Food Contact Acceptable		
	High Density		
	High Purity		
	Low to No Taste		
	Narrow Molecular Weight Distribution		
Uses	Caps		
	Closures		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm <sup>3</sup>	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	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)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	27.6	MPa	
Break	11.4	MPa	
Tensile Elongation <sup>2</sup>			ASTM D638

Yield	9.5	%	
Break	> 800	%	
Flexural Modulus - Tangent	1190	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	37	J/m	ASTM D256
Notched Izod Impact (Area)	3.70	kJ/m <sup>2</sup>	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	72.8	°C	ASTM D648
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	123	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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#### Recommended distributors for this material

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