

INEOS HDPE J50-200-178

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

J50-200-178 is a high density polyethylene copolymer intended for the injection molding of closures for beverages. Because of its high purity and excellent organoleptic properties, this grade is certified as low taste and is intended for packaging in direct contact with beverages. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

Typical Applications

Caps and closures for the packaging of carbonated beverages and water

Injection molded applications where low taste and odor are critical.

General Information			
Features	Copolymer Excellent Organoleptic Properties Food Contact Acceptable High Density High Purity Low to No Odor Low to No Taste		
Uses	Caps Closures Packaging		
Agency Ratings	EC 1907/2006 (REACH) FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal)	14.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	27.6	MPa	ASTM D638
Tensile Elongation ² (Break)	> 1000	%	ASTM D638
Flexural Modulus - Tangent	1210	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	77.2	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	131	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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