INEOS HDPE J50-1000-181

High Density Polyethylene Copolymer INEOS Olefins & Polymers USA

Message:

J50-1000-181 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 that is in direct contact with beverages. Typical applications are caps and closures for the packaging of still water, juice, and dairy products as well as other injection molded applications where low taste and odor are critical. This resin contains a lubrication package for improved release from the mold and lower application torques on bottles. This material meets the Food and Drug Administration requirements of 21 CFR 177.1520.

General Information					
Additive	Lubricant				
Features	Copolymer				
	Excellent Organoleptic Properties				
	Food Contact Acceptable				
	High Density				
	High Purity				
	Low to No Odor				
	Low to No Taste				
	Lubricated				
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	0.951	g/cm³	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 ¹			ASTM D638		
Yield	27.6	MPa			
Break	11.4	MPa			

Tensile Elongation ²			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/m²	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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