INEOS HDPE J50-1000-187

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

J50-1000-187 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 resin contains a low-taste lubrication package for improved release from the mold and lower application torques on the bottles. Typical Applications include caps and closures for the packaging of still water and 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	
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/m^2	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		

Recommended distributors for this material

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