

Ineos B4020N1331 Polyethylene Copolymer

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

This is a unique high density polyethylene copolymer intended for the injection or compression 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. It has a broad molecular weight distribution for faster molding cycles and enhanced stress crack resistance. This material meets the Food and Drug Administration requirements of 21CFR 177.1520. Typical Applications Caps and closures for the packaging of sparkling water or carbonated beverages Injection and compression molded applications where low taste and odor are critical Information provided by Ineos Olefins & Polymers USA

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-B4020N1331-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in ³	ASTM D4883
Environmental Stress Crack Resistance	10 hour	10 hour	Condition B, 10%; ASTM D1693
Melt Flow	1.9 g/10 min @Load 2.16 kg, Temperature 190 °C	1.9 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Yield	28.3 MPa	4100 psi	2 in/min; ASTM D638
Elongation at Break	>= 700 %	>= 700 %	2 in/min; ASTM D638
Izod Impact, Notched	0.694 J/cm	1.30 ft-lb/in	ASTM D256
Tangent Modulus	1170 MPa	170000 psi	ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	67.8 °C	154 °F	ASTM D648
Vicat Softening Point	126 °C	259 °F	ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746

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