

Ineos B53-35H-011 HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Ineos B53-35H-011 is a high density polyethylene copolymer developed for blow molding applications. This product is recommended for use in applications which require a combination of high top load strength and good environmental stress crack resistance (ESCR). This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-B53-35H-011-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D4883
Melt Flow	0.35 g/10 min	0.35 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 Â°C	@Load 4.76 lb, Temperature 374 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Yield	27.6 MPa	4000 psi	2 in/min (50 mm/min); ASTM D-638
Elongation at Break	>= 700 %	>= 700 %	2 in/min (50 mm/min); ASTM D-638
Modulus of Elasticity	1.497 GPa	217.1 ksi	ASTM D638
Flexural Modulus	0.690 GPa	100 ksi	ASTM D747
	1.241 GPa	180.0 ksi	Tangent-Method 1; ASTM D790
Flexural Stiffness	689 MPa	100000 psi	ASTM D747
Izod Impact, Notched	1.90 J/cm	3.56 ft-lb/in	ASTM D256
Tensile Impact Strength	277 kJ/mÂ²	132 ft-lb/inÂ²	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	74.0 Â°C	165 Â°F	ASTM D648
Vicat Softening Point	131 Â°C	268 Â°F	ASTM D1525
Brittleness Temperature	<= -75.0 Â°C	<= -103 Â°F	ASTM D746

Descriptive Properties	Value	Comments
Process	Blow Molding	

Descriptive Properties	Value	Comments
Region	US & Canada	Bamberger Polymers Distribution

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