

Braskem IJ33D LLDPE Injection Molding Polyethylene Copolymer

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Hexene, Molded

Material Notes:

IJ33D is a linear low-density polyethylene, narrow molecular weight butene-1 copolymer produced by the solution process for injection molding applications. It offers high fluidity, excellent flexibility, and low warpage. It contains skid additives. It is specially developed for lids fast-cycle molding injection, natural color and dyed for food. It is also used for oil and vinegar lids. IJ33D was developed to be injected in similar conditions to low-density polyethylene of similar fluidity. Recommended temperature profile: 150° to 210 °C.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-IJ33D-LLDPE-Injection-Molding-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	ASTM-D729
ESCR 10% Igepal®	0.50 hour @Thickness 2.00 mm, Temperature 50.0 °C	0.50 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	45 g/10 min @Load 2.16 kg, Temperature 190 °C	45 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ASTM-D2240
Tensile Strength at Break	9.00 MPa	1310 psi	ASTM-D638
Tensile Strength, Yield	15.0 MPa	2180 psi	ASTM-D638
Elongation at Break	100 %	100 %	ASTM-D638
Elongation at Yield	14 %	14 %	ASTM-D638
Modulus of Rigidity	0.480 GPa	69.6 ksi	ASTM-D747
Flexural Modulus, 1% Secant	520 MPa	75400 psi	ASTM-D790
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	49.0 °C	120 °F	ASTM-D648
Vicat Softening Point	97.0 °C @Load 1.02 kg	207 °F @Load 2.25 lb	ASTM-D1525

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