

Braskem IN34 LLDPE Injection Molding Polyethylene Copolymer

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

Material Notes:

IN34 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 was specially developed for lids fast-cycle molding injection, natural color and dyed for food. It is also recommended for the food market. IN34 was developed to be injected in similar conditions to low-density polyethylene of similar fluidity. Recommended temperature profile: 170° to 210 °C.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-IN34-LLDPE-Injection-Molding-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.939 g/cc	0.0339 lb/in ³	ASTM-D729
Melt Flow	48 g/10 min @Load 2.16 kg, Temperature 190 °C	48 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54	54	ASTM-D2240
Tensile Strength at Break	10.0 MPa	1450 psi	ASTM-D638
Tensile Strength, Yield	19.0 MPa	2760 psi	ASTM-D638
Elongation at Break	100 %	100 %	ASTM-D638
Elongation at Yield	12 %	12 %	ASTM-D638
Modulus of Rigidity	0.645 GPa	93.6 ksi	ASTM-D747
Flexural Modulus, 1% Secant	640 MPa	92800 psi	ASTM-D790
Izod Impact, Notched	0.700 J/cm	1.31 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	100 °C @Load 1.02 kg	212 °F @Load 2.25 lb	ASTM-D1525

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