

Braskem ML2400N LLDPE Injection Molding Polyethylene

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

Material Notes:

The resin ML2400N is a linear low-density polyethylene, 1-butene based, with good flexibility and low warpage. It does not contain a slip agent. It does have narrow molecular weight distribution. This resin is used to produce masterbatches and injection molding of pigmented closures and houseware. This resin was developed to be injected under conditions comparable to polyethylene resins with a similar melt index and density range. Spiral flow: 29.6. Temperature Range: 150 to 210 °C.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-ML2400N-LLDPE-Injection-Molding-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.926 g/cc	0.0335 lb/in ³	ASTM-D1505
ESCR 10% Igepal®	1.5 hour @Thickness 2.00 mm, Temperature 50.0 °C	1.5 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 190 °C	20 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	49	49	ASTM-D2240
Tensile Strength at Break	11.0 MPa	1600 psi	ASTM-D638
Tensile Strength, Yield	12.0 MPa	1740 psi	ASTM-D638
Elongation at Break	340 %	340 %	ASTM-D638
Elongation at Yield	16 %	16 %	ASTM-D882
Flexural Modulus, 1% Secant	415 MPa	60200 psi	ASTM-D790
Izod Impact, Notched	4.85 J/cm	9.09 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	46.0 °C	115 °F	ASTM-D648
Vicat Softening Point	94.0 °C @Load 1.02 kg	201 °F @Load 2.25 lb	ASTM-D1525

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