

Braskem ML4400N LLDPE Rotomolding Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Rotational Molding Grade

Material Notes:

The resin ML4400N is a linear low-density polyethylene, 1-butene based, with high stiffness and an adequate balance of processability and environmental stress cracking resistance. It contains long term UV8 stabilization and antioxidant additives. This resin is used to produce rotomolded water tanks and parts for the automotive and agricultural segments. This resin is recommended for rotational molding under conditions comparable to polyethylene resins with a similar melt index and density range. Oven Temperature Range: 220 to 350 °C.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-ML4400N-LLDPE-Rotomolding-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.939 g/cc	0.0339 lb/in ³	ASTM-D1505
ESCR 100% Igepal®	300 hour @Thickness 2.00 mm, Temperature 50.0 °C	300 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
ESCR 10% Igepal®	28 hour @Thickness 2.00 mm, Temperature 50.0 °C	28 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	3.9 g/10 min @Load 2.16 kg, Temperature 190 °C	3.9 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	24.0 MPa	3480 psi	ASTM-D638
Tensile Strength, Yield	21.0 MPa	3050 psi	ASTM-D638
Elongation at Break	>= 1000 %	>= 1000 %	ASTM-D638
Elongation at Yield	13 %	13 %	ASTM-D638
Flexural Modulus, 1% Secant	670 MPa	97200 psi	ASTM-D790
Impact Test	57.0 J @Thickness 3.17 mm, Temperature -40.0 °C	42.0 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	ARM
	120 J @Thickness 6.34 mm, Temperature -40.0 °C	88.5 ft-lb @Thickness 0.250 in, Temperature -40.0 °F	ARM

Thermal Properties	Metric	English	Comments
Melting Point	126 °C	259 °F	ASTM-D3418
Deflection Temperature at 0.46 MPa (66 psi)	60.0 °C	140 °F	ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	40.0 °C	104 °F	ASTM-D648

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