

Braskem ML3601U LLDPE Rotomolding Polyethylene

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

Material Notes:

The resin ML3601U is a linear low-density polyethylene, 1-hexene based, with excellent environmental stress cracking resistance and high impact strength. It contains long term UV8 stabilization and antioxidant additives. This resin is ideally suited for applications that require a higher mechanical performance. This resin was especially developed to produce rotomolded large tanks for water and chemical products storage, underground tanks, septic tanks, and manholes. This resin is recommended for rotational molding under conditions comparable to polyethylene resins with a similar melt index and density range. Oven temperature range: 180 to 350 °C.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-ML3601U-LLDPE-Rotomolding-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.939 g/cc	0.0339 lb/in ³	ASTM-D1505
ESCR 100% Igepal®	>= 1000 hour @Thickness 2.00 mm, Temperature 50.0 °C	>= 1000 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
ESCR 10% Igepal®	145 hour @Thickness 2.00 mm, Temperature 50.0 °C	145 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	3.3 g/10 min @Load 2.16 kg, Temperature 190 °C	3.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	30.1 MPa	4370 psi	ASTM-D638
Tensile Strength, Yield	21.0 MPa	3050 psi	ASTM-D638
Elongation at Break	>= 1000 %	>= 1000 %	ASTM-D638
Elongation at Yield	14 %	14 %	ASTM-D638
Flexural Modulus, 1% Secant	760 MPa	110000 psi	ASTM-D790
Impact Test	82.0 J @Thickness 3.17 mm, Temperature -40.0 °C	60.5 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	ARM
	228 J @Thickness 6.34 mm, Temperature -40.0 °C	168 ft-lb @Thickness 0.250 in, Temperature -40.0 °F	ARM

Thermal Properties	Metric	English	Comments
Melting Point	127 °C	261 °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)	41.0 °C	106 °F	ASTM-D648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China