

Braskem RA34U3 LLDPE Rotomolding Polyethylene

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

Material Notes:

The resin RA34U3 is a linear low-density polyethylene, 1-butene based, with a good balance of processability, environmental stress cracking resistance, and impact strength. It contains long term UV6 stabilization and antioxidant additives. This resin is used to produce rotomolded parts for general use applications, kayaks, toys, and parts for the agricultural and automotive 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-RA34U3-LLDPE-Rotomolding-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 lb/in ³	ASTM-D1505
ESCR 100% Igepal®	400 hour @Thickness 2.00 mm, Temperature 50.0 °C	400 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
ESCR 10% Igepal®	38 hour @Thickness 2.00 mm, Temperature 50.0 °C	38 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	4.2 g/10 min @Load 2.16 kg, Temperature 190 °C	4.2 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 MPa	3630 psi	ASTM-D638
Tensile Strength, Yield	17.0 MPa	2470 psi	ASTM-D638
Elongation at Break	>= 1000 %	>= 1000 %	ASTM-D638
Elongation at Yield	17 %	17 %	ASTM-D638
Flexural Modulus, 1% Secant	530 MPa	76900 psi	ASTM-D790
Impact Test	49.0 J @Thickness 3.17 mm, Temperature -40.0 °C	36.1 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	ARM
	131 J @Thickness 6.34 mm, Temperature -40.0 °C	96.6 ft-lb @Thickness 0.250 in, Temperature -40.0 °F	ARM

Thermal Properties	Metric	English	Comments
Melting Point	125 °C	257 °F	ASTM-D3418
Deflection Temperature at 0.46 MPa (66 psi)	56.0 °C	133 °F	ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	40.0 °C	104 °F	ASTM-D648

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