

## Braskem RD34U3 LLDPE Rotomolding Polyethylene

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

### Material Notes:

The resin RD34U3 is a linear low-density polyethylene, 1-butene based, with excellent processability and a good balance of stiffness and impact strength. It contains long term UV6 stabilization and antioxidant additives. This resin is used to produce rotational molding toys and parts with complex design. 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-RD34U3-LLDPE-Rotomolding-Polyethylene.php](http://www.lookpolymers.com/polymer_Braskem-RD34U3-LLDPE-Rotomolding-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 lb/in <sup>3</sup>	ASTM-D1505
ESCR 100% Igepal®	350 hour @Thickness 2.00 mm, Temperature 50.0 °C	350 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
ESCR 10% Igepal®	35 hour @Thickness 2.00 mm, Temperature 50.0 °C	35 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 190 °C	6.0 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	17.0 MPa	2470 psi	ASTM-D638
Elongation at Break	>= 1000 %	>= 1000 %	ASTM-D638
Elongation at Yield	16 %	16 %	ASTM-D638
Flexural Modulus, 1% Secant	520 MPa	75400 psi	ASTM-D790
Impact Test	44.0 J @Thickness 3.17 mm, Temperature -40.0 °C	32.5 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	ARM
	110 J @Thickness 6.34 mm, Temperature -40.0 °C	81.1 ft-lb @Thickness 0.250 in, Temperature -40.0 °F	ARM

Thermal Properties	Metric	English	Comments
Melting Point	124 °C	255 °F	ASTM-D3418
Deflection Temperature at 0.46 MPa (66 psi)	55.0 °C	131 °F	ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	39.0 °C	102 °F	ASTM-D648

## Contact Songhan Plastic Technology Co.,Ltd.

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