

## Braskem RC35U4 LLDPE Rotomolding Polyethylene

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

### Material Notes:

The resin RC35U4 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-RC35U4-LLDPE-Rotomolding-Polyethylene.php](http://www.lookpolymers.com/polymer_Braskem-RC35U4-LLDPE-Rotomolding-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.939 g/cc	0.0339 lb/in <sup>3</sup>	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®	32 hour @Thickness 2.00 mm, Temperature 50.0 °C	32 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	3.5 g/10 min @Load 2.16 kg, Temperature 190 °C	3.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	27.0 MPa	3920 psi	ASTM-D638
Tensile Strength, Yield	19.0 MPa	2760 psi	ASTM-D638
Elongation at Break	>= 1000 %	>= 1000 %	ASTM-D638
Elongation at Yield	16 %	16 %	ASTM-D638
Flexural Modulus, 1% Secant	665 MPa	96500 psi	ASTM-D790
Impact Test	50.0 J @Thickness 3.17 mm, Temperature -40.0 °C	36.9 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	ARM
	105 J @Thickness 6.34 mm, Temperature -40.0 °C	77.4 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)	58.0 °C	136 °F	ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	41.0 °C	106 °F	ASTM-D648

## Contact Songhan Plastic Technology Co.,Ltd.

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