

## Polimeri Europa Clearflex® RN 50 U Linear Medium Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , MDPE , Linear Medium Density Polyethylene (LMDPE), Rotational Molded

### Material Notes:

Clearflex RN 50 U is a linear medium density polyethylene resin, with antioxidants and UV stabilizers, suitable for rotomolding applications. Items manufactured with Clearflex RL 50 U show good mechanical properties and excellent surface aspect. Main Applications: Thanks to high processability, Clearflex RN 50 U is recommended for the production of items with difficult shapes, vases and garden articles. Information provided by Polimeri Europa.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polimeri-Europa-Clearflex-RN-50-U-Linear-Medium-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Polimeri-Europa-Clearflex-RN-50-U-Linear-Medium-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.936 g/cc	0.936 g/cc	ISO 1183
Environmental Stress Crack Resistance	>= 250 hour	>= 250 hour	ISO 22088
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	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54	54	ISO 868/A
Tensile Strength at Break	17.0 MPa	2470 psi	ISO 527
Tensile Strength, Yield	18.0 MPa	2610 psi	ISO 527
Elongation at Break	>= 700 %	>= 700 %	ISO 527
Flexural Modulus	0.650 GPa	94.3 ksi	ISO 178
Dart Drop Total Energy	210 J/cm	0.393 ft-lb/mil	rotomolded sample; ISO 6603/2

Thermal Properties	Metric	English	Comments
Melting Point	127 °C	261 °F	Internal method
Vicat Softening Point	113 °C @Load 1.00 kg	235 °F @Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	clear; thickness not quantified

## **Contact Songhan Plastic Technology Co.,Ltd.**

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