

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

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

### Material Notes:

Clearflex RL 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 high environmental stress crack resistance (ESCR). Main Applications: Thanks to good mechanical properties and high ESCR, Clearflex RL 50 U is recommended for the production of high capacity containers. Information provided by Polimeri Europa.

Order this product through the following link:

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

| Physical Properties                   | Metric                                               | English                                              | Comments  |
|---------------------------------------|------------------------------------------------------|------------------------------------------------------|-----------|
| Specific Gravity                      | 0.941 g/cc                                           | 0.941 g/cc                                           | ISO 1183  |
| Environmental Stress Crack Resistance | >= 500 hour                                          | >= 500 hour                                          | ISO 22088 |
| Melt Flow                             | 3.5 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 3.5 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ISO 1133  |

| Mechanical Properties     | Metric    | English         | Comments                      |
|---------------------------|-----------|-----------------|-------------------------------|
| Hardness, Shore D         | 55        | 55              | ISO 868/A                     |
| Tensile Strength at Break | 20.0 MPa  | 2900 psi        | ISO 527                       |
| Tensile Strength, Yield   | 19.0 MPa  | 2760 psi        | ISO 527                       |
| Elongation at Break       | >= 700 %  | >= 700 %        | ISO 527                       |
| Flexural Modulus          | 0.730 GPa | 106 ksi         | ISO 178                       |
| Dart Drop Total Energy    | 200 J/cm  | 0.375 ft-lb/mil | rotomolded sample; ISO 6603/2 |

| Thermal Properties      | Metric                  | English                 | Comments        |
|-------------------------|-------------------------|-------------------------|-----------------|
| Melting Point           | 128 °C                  | 262 °F                  | Internal method |
| Vicat Softening Point   | 118 °C<br>@Load 1.00 kg | 244 °F<br>@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 |

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