

Polimeros Mexicanos Rotolene® 93050 Medium Density Polyethylene

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

Material Notes:

Hexene Copolymer Linear Medium Density Polyethylene for rotational molding. This resin is fully UV8 stabilized. Recommended for general purpose applications. Frequently used for water tanks (less than 2000 liters) and small to medium size containers exhibiting very good mechanical properties. When used for inner layers, it provides excellent smooth finish and texture. Natural Polyethylene meets all requirements of US FDA as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact. Information provided by Polimeros Mexicanos

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeros-Mexicanos-Rotolene-93050-Medium-Density-Polyethylene.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|--------------------------|
| Bulk Density | 0.330 - 0.390 g/cc | 0.0119 - 0.0141 lb/in ³ | ASTM D1895 |
| Density | 0.935 g/cc | 0.0338 lb/in ³ | ASTM D792 |
| Particle Mesh Size | 35 Mesh | 35 Mesh | less than 2%; ASTM D1921 |
| ESCR 100% Igepal® | >= 1000 hour | >= 1000 hour | ASTM D1693 |
| ESCR 10% Igepal® | 300 hour | 300 hour | |
| Melt Flow | 5.2 g/10 min @Load 2.16 kg, Temperature 190 °C | 5.2 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------------------------|-------------------------------------|------------------------|
| Tensile Strength, Yield | 18.6 MPa | 2700 psi | 50 mm/min; ASTM D638 |
| Elongation at Yield | 11.8 % | 11.8 % | (2 in/min); ASTM D638 |
| Flexural Modulus | 0.689 GPa | 100 ksi | 1.3 mm/min; ASTM D790B |
| Impact Test | 61.0 J @Temperature -40.0 °C | 45.0 ft-lb @Temperature -40.0 °F | 0.125 in.; ARM test |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 50.0 °C | 122 °F | ASTM D648 |

| Descriptive Properties | Value | Comments |
|------------------------|--------------|----------|
| Pourability | 2.5 - 4 gr/s | |

| Process Descriptive Properties | Rotational Molding Value | Comments |
|-----------------------------------|-----------------------------|----------|
|-----------------------------------|-----------------------------|----------|

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