

Polimeros Mexicanos Rotolene® 93835-TG Medium Density Polyethylene

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

Material Notes:

MDPE Copolymer with UV8 stabilizer in natural and colors. Recommended for rotomolding. Used for manufacture of water tanks > 2000 liters, cisterns, farm tanks, or tanks to contain strong acids and bases due its excellent chemical resistance. It has excellent mechanical properties, very good impact strength, and ESCR with soft finish. Natural polyethylene meets all FDA 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-93835-TG-Medium-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Bulk Density	0.330 - 0.390 g/cc	0.0119 - 0.0141 lb/in³	ASTM D1895
Density	0.938 g/cc	0.0339 lb/in³	ASTM D792
Particle Mesh Size	35 Mesh	35 Mesh	less than 2%; ASTM D1921
ESCR 100% Igepal®	>= 1000 hour @Temperature 50.0 °C	>= 1000 hour @Temperature 122 °F	F50; ASTM D1693
ESCR 10% Igepal®	>= 1000 hour @Temperature 50.0 °C	>= 1000 hour @Temperature 122 °F	F50; 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, Yield	20.2 MPa	2930 psi	ASTM D638
Elongation at Yield	11.3 %	11.3 %	(2 in/min); ASTM D638
Flexural Modulus	0.717 GPa	104 ksi	1% Secant; ASTM D790B
Impact Test	88.1 J @Temperature -40.0 °C	65.0 ft-lb @Temperature -40.0 °F	0.144 in.; ARM test

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	56.1 °C	133 °F	ASTM D648

Descriptive Properties	Value	Comments
Pourability	2.5 - 4 gr/s	

Descriptive Properties Process	Value Rotational Molding	Comments
Region	Europe/Turkey	Bamberger Polymers Distribution

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