

ICO Polymers ICORENE® 190-1327 LMDPE Rotational Molding Resin

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

Material Notes:

Description: ICORENE 190-1327 is a linear medium density polyethylene copolymer developed for rotational molding. It has a good balance of properties such as toughness, easy flow and stiffness. Key Characteristics: good physical properties, easy molding, controlled release.

Applications: This ICORENE® grade is particularly suitable for use in general purpose applications. Information provided by ICO

Polymers. A Schulman acquired ICO, Inc. in 2010.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ICO-Polymers-ICORENE-190-1327-LMDPE-Rotational-Molding-Resin.php

Physical Properties	Metric	English	Comments
Density	0.934 g/cc	0.0337 lb/in ³	ASTM D1505
ESCR 10% Igepal®	10 hour	10 hour	F50; ASTM D1693
Melt Index of Compound	9.0 g/10 min @Load 2.16 kg, Temperature 190 °C	9.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	ASTM D2240
Tensile Strength, Yield	16.0 MPa	2320 psi	50 mm/min; ASTM D638
Elongation at Break	500 %	500 %	50 mm/min; ASTM D638
Flexural Modulus	0.650 GPa	94.3 ksi	1.3 mm/min; ASTM D790
Impact	18 @Temperature -20.0 °C	18 @Temperature -4.00 °F	J/mm, instrumented impact, rotomolded test sample; ICO R&D1.14

Descriptive Properties	Value	Comments
UV Light Weatherometer Test	8000 hours	ASTM G26

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