

Petromont 3101 High Density Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Petromont HDPE 3101 is a high density polyethylene resin produced using the UNIPOL® Process. This resin is intended for a broad range of injection moulding applications including open-head pails, housewares, toys and food containers. Petromont HDPE 3101 is a low molecular weight hexene modified copolymer resin with a very narrow molecular weight distribution. The resin has been especially designed for use in injection moulding applications where thin-walled parts having excellent toughness and gloss, combined with superior flow characteristics, are required.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Petromont-3101-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	ASTM D1505
ESCR 10% Igepal®	50 hour	50 hour	F₅₀; ASTM D1693
Melt Flow	20 g/10 min	20 g/10 min	I₂; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.9 MPa	4190 psi	ASTM D638
Elongation at Yield	7.0 %	7.0 %	ASTM D638
Flexural Modulus	1.20 GPa	174 ksi	ASTM D790
Tensile Impact Strength	67.3 kJ/m ²	32.0 ft-lb/in ²	ASTM D1822

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -100 °C	<= -148 °F	ASTM D746

Descriptive Properties	Value	Comments
Process	Injection Molding	

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