

Petromont 3100 High Density Polyethylene Resin

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

Material Notes:

Petromont HDPE 3100 is a high density polyethylene resin produced using the UNIPOL® Process. This resin is intended for injection moulding of high performance products such as pails, industrial parts and other shipping containers. It has been designed to meet the rigorous performance characteristics of stackability, environmental stress crack resistance and impact strength without any sacrifice to the moulder in processability. Petromont HDPE 3100 is a medium, molecular weight hexene-modified copolymer resin with a very narrow molecular weight distribution. By balancing properties such as density, molecular weight and molecular weight distribution results in outstanding properties of impact strength, stress crack resistance and low warpage while maintaining excellent mouldability. Parts moulded from Petromont HDPE 3100 exhibit high gloss, low odour and are suitable for food packaging applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Petromont-3100-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D1505
ESCR 10% Igepal®	400 hour	400 hour	F ₅₀ ; ASTM D1693
Melt Flow	7.1 g/10 min	7.1 g/10 min	I ₂ ; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.3 MPa	4100 psi	ASTM D638
Elongation at Yield	7.0 %	7.0 %	ASTM D638
Flexural Modulus	1.24 GPa	180 ksi	ASTM D790
Tensile Impact Strength	79.9 kJ/m ²	38.0 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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