

Petromont 1100 High Density Polyethylene Resin

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

Material Notes:

Petromont HDPE 1100 is a high-density polyethylene homopolymer resin produced using the UNIPOL® Process. This multi-purpose resin is intended primarily for use in most intermittent and continuous blow moulding equipment found in the industry. Petromont HDPE 1100 has an intermediate molecular weight distribution. It combines maximum rigidity with high impact strength, top load strength, moderate swell, excellent colour and imparts no detectable taste or odour to packaged products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Petromont-1100-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.961 g/cc	0.0347 lb/in ³	ASTM D1505
ESCR 100% Igepal®	15 hour	15 hour	F ₅₀ ; ASTM D1693-B
Melt Flow	0.70 g/10 min	0.70 g/10 min	I ₂ ; ASTM D1238
	50 g/10 min	50 g/10 min	I ₂₁ ; ASTM D238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Ultimate	20.7 MPa	3000 psi	ASTM D638
Tensile Strength, Yield	30.1 MPa	4370 psi	ASTM D638
Elongation at Break	750 %	750 %	ASTM D638
Flexural Modulus	1.725 GPa	250.2 ksi	ASTM D790
Izod Impact, Notched	1.228 J/cm	2.301 ft-lb/in	ASTM D256
	1.015 J/cm	1.902 ft-lb/in	ASTM D256
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Elmendorf Tear Strength, MD	1.97 g/micron	50.0 g/mil	ASTM D1922

Thermal Properties	Metric	English	Comments
CTE, linear	150 µm/m-°C	83.3 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	133 °C	271 °F	Petromont
Crystallization Temperature	119 °C	246 °F	Petromont

Thermal Properties	Metric	English	Comments
Vicat Softening Point	130 °C	266 °F	ASTM D1525
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

Descriptive Properties	Value	Comments
Process	Blow Molding	

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