

Petromont 1000 High Density Polyethylene Resin

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

Material Notes:

Petromont HDPE 1000 is a high density polyethylene copolymer resin produced using the Unipol® Process. This multi-purpose resin can be used on intermittent and continuous blow moulding machines to produce containers up to 10 litres for use in various packaging applications. Petromont HDPE 1000 offers both excellent processing characteristics and finish product performance. Petromont HDPE 1000, because of its high density, exhibits excellent rigidity and top load performance while still offering outstanding drop impact properties, as well as maintaining excellent environmental stress crack resistance performance. The higher density also makes this product a good candidate for some hot filled applications. The glossy appearance, which is characteristic of Petromont's resins, results in parts exhibiting good surface quality. The highly stabilized additive package makes Petromont HDPE 1000 less susceptible to degradation during processing. In regards to swell characteristics, Petromont HDPE 1000 is similar to most competitive resins having similar viscosity properties.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Petromont-1000-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D1505
ESCR 100% Igepal®	33 hour	33 hour	F ₅₀ ; ASTM D1693-B
Melt Flow	0.33 g/10 min	0.33 g/10 min	I ₂ ; ASTM D1238
	29 g/10 min	29 g/10 min	I ₂₁ ; ASTM D238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	ASTM D2240
Tensile Strength, Yield	26.9 MPa	3900 psi	ASTM D638
Elongation at Break	>= 800 %	>= 800 %	ASTM D638
Flexural Modulus	1.325 GPa	192.2 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	130 µm/m-°C	72.2 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	134 °C	273 °F	Petromont
Crystallization Temperature	111 °C	232 °F	Petromont

Deflection Temperature at 0.46 MPa Thermal Properties (0.1% Strain)	74.0 °C Metric	165 °F English	ASTM D648 Comments
Vicat Softening Point	128 °C	262 °F	ASTM D1525
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

Descriptive Properties	Value	Comments
Process	Blow Molding	

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