

Petromont 1002 High Density Polyethylene Resin

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

Material Notes:

Petromont HDPE 1002 is a blow moulding high-density polyethylene copolymer resin produced using the UNIPOL® Process. This multi-purpose resin can be used on intermittent and continuous extrusion blow moulding machines to produce containers up to 10 litres for use in various packaging applications. The glossy appearance that is characteristic of Petromont's resins results in parts with good surface quality. Combining its low melt index and high density, Petromont HDPE 1002 exhibits excellent rigidity and top load performance while maintaining outstanding drop impact properties and excellent environmental stress cracking properties. The specially designed formulation makes Petromont HDPE 1002 less susceptible to degradation during processing. This product is also Anti-static modified.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Petromont-1002-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 @Temperature 20.0 °C	72.2 µin/in-°F @Temperature 68.0 °F	ASTM D696
Melting Point	134 °C	273 °F	Petromont
Crystallization Temperature	111 °C	232 °F	Petromont
Deflection Temperature at 0.46 MPa (66 psi)	74.0 °C	165 °F	ASTM D648
Vicat Softening Point	128 °C	262 °F	ASTM D1525

Brittleness Temperature Thermal Properties	≤ -76.0 °C Metric	≤ -105 °F English	ASTM D746 Comments
Descriptive Properties	Value		Comments
Process	Blow Molding		

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