

Petromont 5000 High Density Polyethylene Resin

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

Material Notes:

Petromont HDPE 5000 is a high density polyethylene copolymer resin produced using the UNIPOL™ Process. This resin is intended for use in prime sheet and thermoforming applications such as arena boards, biscuit trays and panels. Petromont HDPE 5000 is an intermediate molecular weight hexene modified resin with a narrow molecular weight distribution offering an excellent combination of rigidity (stiffness), toughness and extrusion characteristics as well as high gloss surface finish

Order this product through the following link:

http://www.lookpolymers.com/polymer_Petromont-5000-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®	30 hour	30 hour	F ₅₀ ; ASTM D1693-B
Melt Flow	0.30 g/10 min	0.30 g/10 min	I ₂ ; ASTM D1238
	28 g/10 min	28 g/10 min	I ₂₁ ; ASTM D238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	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	<= -76.0 °C	<= -105 °F	ASTM D746

Descriptive Properties	Value	Comments
Process	Sheet Extrusion	

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