

Petromont 5001 High Density Polyethylene Resin

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

Material Notes:

Petromont HDPE 5001 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, panels, etc. Petromont HDPE 5001 is a high molecular weight hexene modified resin with a broad molecular weight distribution offering an excellent combination of rigidity, toughness and extrusion characteristics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Petromont-5001-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.948 g/cc	0.0342 lb/in ³	ASTM D1505
ESCR 100% Igepal®	>= 2000 hour	>= 2000 hour	F₅₀; ASTM D1693-B
ESCR 10% Igepal®	>= 1000 hour	>= 1000 hour	F₅₀; ASTM D1693-B
Melt Flow	0.10 g/10 min	0.10 g/10 min	I₂; ASTM D1238
	11 g/10 min	11 g/10 min	I₂₁; ASTM D238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.1 MPa	5090 psi	ASTM D638
Tensile Strength, Yield	35.1 MPa	5090 psi	ASTM D638
Elongation at Break	600 %	600 %	ASTM D638
Flexural Modulus	1.07 GPa	155 ksi	ASTM D790
Izod Impact, Notched	>= 2.13 J/cm	>= 3.99 ft-lb/in	ASTM D256

Descriptive Properties	Value	Comments
Process	Sheet Extrusion	

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