

Petromont 7002 Medium Density Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded , MDPE

Material Notes:

Petromont HDPE 7002 is a medium-density polyethylene hexene modified resin with an excellent balance of chemical resistance and durability. It is designed to be readily processed by flat die extrusion equipment. Petromont HDPE 7002 is an unpigmented polyethylene compound which, after proper incorporation of carbon black, may be used for geomembrane applications, such as liners for landfills and surface impoundments, where polyethylene is the material of choice. Comprehensive information on such facilities is available in documents issued by the U.S.A EPA. When Petromont HDPE 7002, containing sufficient stabilizers, is properly processed into sheet, installed and seamed, the resulting liner is expected to provide excellent resistance to aqueous chemicals and solvents as well as to stress cracking. Sheet made in this way from Petromont HDPE 7002 can be expected to pass the physical property requirements of the GM-13 of GRI (Geosynthetic Research Institute) for Flexible Membrane Liners.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Petromont-7002-Medium-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.9375 g/cc	0.03387 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 2000 hour	>= 2000 hour	F₀; ASTM D1693/B
Oxidative Induction Time (OIT)	>= 100 min	>= 100 min	200°C with oxygen in aluminum pan; ASTM D3895
Melt Flow	0.20 g/10 min	0.20 g/10 min	I₂; ASTM D1238/E
	20 g/10 min	20 g/10 min	I₂₁; ASTM D1238/F

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	31.0 MPa	4500 psi	ASTM D638
Tensile Strength, Yield	20.0 MPa	2900 psi	ASTM D638
Elongation at Break	>= 850 %	>= 850 %	ASTM D638
Flexural Modulus	0.650 GPa	94.3 ksi	ASTM D790

Descriptive Properties	Value	Comments
Process	Extrusion	

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