

Petromont 4101 High Density Polyethylene Resin

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

Material Notes:

Petromont HDPE 4101 is a high density polyethylene copolymer resin produced using the UNIPOL® Process. This resin is primarily used in the extrusion of corrugated pipes for drainage applications, for sewer pipes and for a wide range of profile extrusion applications. It has been specifically designed for corrugated pipes with the addition of colour concentrates. Petromont HDPE 4101 complies with the material requirements specified by AASHTO M 294. When mixed with an appropriate carbon black masterbatch, Petromont HDPE 4101 black meets the CSA B182.8 standard for use in profile storm sewer pipe and fabricated fittings.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Petromont-4101-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D1505
Melt Flow	0.22 g/10 min	0.22 g/10 min	I₂; ASTM D1238
	20 g/10 min	20 g/10 min	I₂₁; ASTM D238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.2 MPa	3800 psi	ASTM D638
Elongation at Break	>= 600 %	>= 600 %	ASTM D638
Flexural Modulus	1.17 GPa	170 ksi	ASTM D790
Tensile Load, Notched Constant	>= 24.0 hour	>= 24.0 hour	Single Point; ASTM D5397

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -100 °C	<= -148 °F	ASTM D746

Descriptive Properties	Value	Comments
Process	Pipe Extrusion	

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