

Petromont DGDP-2485 High Density Polyethylene Resin

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

Material Notes:

Pétromont® DGDP-2485 Natural is a high density polyethylene copolymer produced using the UNIPOL® process technology. DGDP-2485 is a high performance resin with very high melt strength, excellent stress cracking resistance and toughness, and good long-term hoop strength. This product is specifically designed for the extrusion of potable water, industrial, mining, and fuel gas pipe. DGDP-2485 Natural is classified under ASTM D 3350 as Grade PE-345464A. This gives it the material designation code of PE 3608. This resin, when properly extruded with the appropriate level of carbon black masterbatch 0093 Black(1) (6.5% by weight) is called DGDP-2485 Black 3408. Plastics Pipe Institute (PPI) has listed DGDP-2485 Black as a PE-3608 plastic piping material with Hydrostatic Design Basis (HDB) of 1600 psi for water at 23°C (73°F) and HDB of 800 psi for water at 60°C (140°F). DGDP-2485 Black meets CSA International Water Pressure Services Standard B137.1 and Gas Services Standard B137.4 as a PE-3408 material. It also meets National Sanitation Foundation (NSF) Standards 14 and 61 for potable water pipe and fitting systems.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Petromont-DGDP-2485-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.9445 g/cc	0.03412 lb/in ³	ASTM D1505
ESCR 100% Igepal®	>= 5000 hour	>= 5000 hour	F₅₀; ASTM D1693-C
Melt Flow	0.060 g/10 min	0.060 g/10 min	I₂; ASTM D1238
	8.8 g/10 min	8.8 g/10 min	I₂₁; ASTM D238

Mechanical Properties	Metric	English	Comments
PENT	>= 100 hour	>= 100 hour	ASTM F1473
Tensile Strength at Break	31.0 MPa	4500 psi	ASTM D638
Tensile Strength, Yield	22.0 MPa	3190 psi	ASTM D638
Elongation at Break	>= 800 %	>= 800 %	ASTM D638
Flexural Modulus	0.820 GPa	119 ksi	ASTM D790
Izod Impact, Notched	>= 2.13 J/cm	>= 3.99 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -78.0 °C	<= -108 °F	ASTM D746

Descriptive Properties	Value	Comments
Process	Extrusion	

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