

Chevron Phillips Marlex® HP076 High Density Polyethylene, Pipe Grade

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Pipe Grade

Material Notes:

This hexene copolymer is tailored for pipe applications that require: Good melt strength, Good pipe stiffness, Outstanding ESCR. Typical corrugated pipe applications for HP076 include: Culverts and storm sewers, Land drainage, Conduit. This resin meets or exceeds these specifications: ASTM D4796 - PE 235A, AASHTO M294, ASTM F2160, ASTM D3350 class 445540A. Information provided by Chevron Phillips Chemical Company LP.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-HP076-High-Density-Polyethylene-Pipe-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.953 g/cc	0.953 g/cc	ASTM D1505
ESCR 100% Igepal®	>= 600 hour	>= 600 hour	Condition C, f20; ASTM D1693
ESCR 10% Igepal®	>= 1000 hour	>= 1000 hour	Condition B, F50; ASTM D1693
Oxidative Induction Time (OIT)	>= 100 min @Temperature 200 °C	>= 100 min @Temperature 392 °F	ASTM D3895
Melt Flow	0.10 g/10 min @Load 2.16 kg, Temperature 190 °C	0.10 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
	18 g/10 min @Load 21.6 kg, Temperature 190 °C	18 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 27.0 MPa	>= 3920 psi	2 in/min, Type IV bar; ASTM D638
Elongation at Break	600 %	600 %	2 in/min, Type IV bar; ASTM D638
Flexural Modulus	0.965 GPa	140 ksi	2% Secant; ASTM D790
Tensile Load, Notched Constant	>= 175 hour	>= 175 hour	Ligament Stress, Average of five; ASTM F2136

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