Chevron Phillips Marlex® H516 Polyethylene; HDPE (discontinued **)

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

Material Notes:

High density polyethylene compound. This high performance PE 100 HDPE compound is tailored for the demanding requirements of pressure pipe applications that require: Excellent long-term hoop strengthSuperb resistance to slow-crack growthExceptional resistance to rapid-crack propagationOutstanding low-temperature toughness Additional information: Yellow version also available.Applications: Typical pipe applications for H516 include: Gas distributionPotable waterIndustrial applicationsInformation provided by PhillipsThis compound meets or exceeds: ASTM D4976 - PE 235ASTM D3350, class 445574C and 445576CNSF Standards 14 and 61 for potable waterPPI designations PE 4710 and PE 100

Order this product through the following link:
http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-H516-Polyethylene-HDPE-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.961 g/cc	0.0347 lb/in³	ASTM D-1505
Melt Flow	8.0 g/10 min	8.0 g/10 min	HLMI, 190/21.6; ASTM D-1238

Mechanical Properties	Metric	English	Comments
PENT	>= 5000 hour	>= 5000 hour	slow crack growth; ASTM F-1473
Tensile Strength, Yield	25.5 MPa	3700 psi	2 in/min, Type IV bar; ASTM D-638
Elongation at Break	>= 700 %	>= 700 %	2 in/min, Type IV bar; ASTM D-638
Flexural Modulus	0.965 GPa	140 ksi	2% Secant - 16:1 span:depth, 0.5 in/min; ASTM D-790
Hydrostatic Design Basis	11.0 MPa @Temperature 23.0 °C	1600 psi @Temperature 73.4 °F	ASTM D-2837

Descriptive Properties	Value	Comments
Hydrostatic Design Basis @ 140°F MPa	6.9	ASTM D-2837
Hydrostatic Strength, hour	>10000	at 5.0MPa, 80°C; ISO 1167
	>400	at 12.4Mpa, 20°C; ISO 1167
	>8000	at 5.5MPa, 80°C; ISO 1167
Notched Pipe Test @ 4.6 MPa hour	500	ISO 13479
Rapid Crack Propagation bar	>10	S4 crit. pressure, -15°C; ISO 13477
	30	Full Scale Test, 0°C; ISO 13478

Descriptive Properties	Value	Comments
Required Minimum Strength MPa	10	ISO 9080

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