

## Chevron Phillips Marlex® H516HP High Density Polyethylene, Pressure Pipe Grade

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

### Material Notes:

This high performance PE 4710 HDPE is tailored for the demands of pressure pipe applications that require: Excellent long-term hoop strength  
Superb resistance to slow crack growth  
Exceptional resistance to rapid crack propagation  
Outstanding low-temperature toughness  
Additional Information  
Meets ASTM D4796 - PE 235  
NSF Third party D2513 certified  
NSF CSA B137.1 and B137.4 certified  
Typical applications for H516HP include: Gas distribution  
Potable water  
Industrial  
When blended with an approved black concentrate, the material meets or exceeds: ASTM D3350, class 445574C and 445576C  
NSF Standards 14 and 61 for potable water  
PPI designations PE 4710 and PE 100  
Information provided by Chevron Phillips Chemical Company LP.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chevron-Phillips-Marlex-H516HP-High-Density-Polyethylene-Pressure-Pipe-Grade.php](http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-H516HP-High-Density-Polyethylene-Pressure-Pipe-Grade.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.949 g/cc	0.949 g/cc	ASTM D1505
Melt Flow	9.0 g/10 min	9.0 g/10 min	ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
PENT	>= 10000 hour	>= 10000 hour	ASTM F1473
Tensile Strength, Yield	25.5 MPa	3700 psi	2 in/min, Type IV bar; ASTM D638
Elongation at Break	>= 700 %	>= 700 %	2 in/min, Type IV bar; ASTM D638
Flexural Modulus	0.965 GPa	140 ksi	2% Secant; ASTM D790
Hydrostatic Design Basis	6.90 MPa	1000 psi	ASTM D2837
	@Temperature 60.0 °C	@Temperature 140 °F	
	11.0 MPa	1600 psi	ASTM D2837
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Descriptive Properties	Value	Comments
Minimum Required Strength	10.0 MPa	ISO 9080
Notched Pipe Test	500 h	ISO 13479, 80°C
Rapid Crack Propagation	12 bar	ISO 13477, 0°C

## **Contact Songhan Plastic Technology Co.,Ltd.**

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