

## Chevron Phillips Marlex® HHM TR-418Q MDPE Hexene Copolymer

Category : Polymer , Thermoplastic , Polyethylene (PE) , MDPE , Medium Density Polyethylene (MDPE), Extruded

### Material Notes:

High performance MDPE resin has been formulated for the demanding requirements of pressure pipe applications. Meets ASTM D4976 PE 225. Meets FDA Regulation 177.1520, suitable for food packaging applications. When blended with yellow concentrate, this resin meets ASTM D3350-99 Class 234363E; PPI Recommended Designation PE 2406; and is not recommended for food applications. Characteristics: outstanding resistance to slow crack growth, contains UV stabilizer, outstanding pipe ring ESCR Applications: pipe for gas distribution, oil field and other industrial pipe. Data provided by Chevron Phillips Chemical Company, LP.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chevron-Phillips-Marlex-HHM-TR-418Q-MDPE-Hexene-Copolymer.php](http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-HHM-TR-418Q-MDPE-Hexene-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.939 g/cc	0.0339 lb/in <sup>3</sup>	ASTM D1505
ESCR 100% Igepal®	>= 5000 hour	>= 5000 hour	Cond. A, B, and C; 100% Igepal®; F<sub>50</sub>; ASTM D1693
	>= 5000 hour	>= 5000 hour	Pipe Ring; ASTM F1278
Melt Flow	0.20 g/10 min	0.20 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
High Load Melt Index	20 g/10 min	20 g/10 min	High Load; ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
PENT	>= 1000 hour	>= 1000 hour	ASTM F1473
Tensile Strength at Break	33.1 MPa	4800 psi	Type IV; 50 mm per min; ASTM D638
Tensile Strength, Yield	19.3 MPa	2800 psi	Type IV; 50 mm per min; ASTM D638
Elongation at Break	>= 500 %	>= 500 %	Type IV; 50 mm per min; ASTM D638
Flexural Modulus	0.621 GPa	90.0 ksi	ASTM D3350
	0.758 GPa	110 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -90.0 °C	<= -130 °F	ASTM D746

Processing Properties	Metric	English	Comments
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Processing Temperature  
Processing Properties

193 - 216 °C  
Metric

379 - 421 °F  
English

Stock  
Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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