

Chevron Phillips Marlex® HHM TR-480Z/M362 Natural high density ethylene hexene copolymer/black concrete (disc)

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

Benefits: good long term hoop strength performance, very high melt strength, outstanding toughness even at low temperatures, concrete base resin
 Characteristics: Pipe Ring ESCR > 2000 h, ASTM F 1248; 11 MPa Hydrostatic Design Basis at 23°C and 5.5 MPa Hydrostatic Design Basis at 60°C
 Applications: potable water, industrial and mining, oil and gas gathering
 PENT is 150 hours per ASTM F 1473.
 Information provided by Chevron Phillips Chemical Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-HHM-TR-480ZM362-Natural-high-density-ethylene-hexene-copolymerblack-concrete-nbspdisc.php

Physical Properties	Metric	English	Comments
Density	0.944 g/cc	0.0341 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 1000 hour @Temperature 50.0 °C	>= 1000 hour @Temperature 122 °F	Conditions A, B and C; ASTM D 1693
Melt Flow	0.11 g/10 min @Load 2.16 kg, Temperature 190 °C	0.11 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
High Load Melt Index	10 g/10 min @Load 21.6 kg, Temperature 190 °C	10 g/10 min @Load 47.6 lb, Temperature 374 °F	High Load; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	34.0 MPa	4930 psi	ASTM D638 Type IV
Tensile Strength, Yield	22.0 MPa	3190 psi	ASTM D638 Type IV
Elongation at Break	>= 500 %	>= 500 %	ASTM D638 Type IV
Flexural Modulus	0.960 GPa	139 ksi	ASTM D790

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

Processing Properties	Metric	English	Comments
Processing Temperature	193 - 216 °C	379 - 421 °F	adequate mixing to achieve good dispersion

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