

Techmer ES HiFill FR[®] HDPE 8904 FR UV GY

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

Material Notes:

Availability: North America Forms: Pellets Additive: UV Stabilizer Features: Flame Retardant and Good UV Resistance Appearance:

Gray Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-HDPE-8904-FR-UV-GY.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Water Absorption	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	ASTM D570
Melt Flow	6.5 g/10 min @Load 2.16 kg, Temperature 190 °C	6.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.0 MPa	2900 psi	ASTM D638
Elongation at Break	200 %	200 %	ASTM D638
Flexural Strength	28.3 MPa	4100 psi	ASTM D790
Flexural Modulus	1.03 GPa	150 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.17 mm	1.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	72.2 °C	162 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

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