

## Techmer ES HiFill® HDPE 8904 UV GY

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Glass fiber Filled

### Material Notes:

Availability: North America Forms: Pellets Additive: UV Stabilizer Features: Good UV Resistance Appearance: Grey Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-HDPE-8904-UV-GY.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-HDPE-8904-UV-GY.php)

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.010 % @Time 86400 sec	0.010 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.030 cm/cm @Thickness 3.17 mm	0.030 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	4.4 g/10 min @Load 2.16 kg, Temperature 190 °C	4.4 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	59	59	ASTM D785
Tensile Strength, Yield	33.8 MPa	4900 psi	ASTM D638
Elongation at Break	9.0 %	9.0 %	ASTM D638
Flexural Strength	41.4 MPa	6000 psi	ASTM D790
Flexural Modulus	1.10 GPa	160 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm	2.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	144 µm/m-°C	80.0 µin/in-°F	ASTM D696
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

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

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