

Techmer ES HiFill[®] POM CO GC20 20% Glass Bead Filled

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Glass Bead Filled

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Bead, 20% Filler by Weight Features: Copolymer Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-POM-CO-GC20-20-Glass-Bead-Filled.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	ASTM D792
Water Absorption	0.50 % @Time 86400 sec	0.50 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.014 cm/cm @Thickness 3.17 mm	0.014 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	75	75	ASTM D785
Tensile Strength, Yield	51.7 MPa	7500 psi	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Yield Strength	81.4 MPa	11800 psi	ASTM D790
Flexural Modulus	3.38 GPa	490 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm @Thickness 3.17 mm	0.700 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	63.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	35.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Melting Point	166 $\text{Å}^\circ\text{C}$	330 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	154 $\text{Å}^\circ\text{C}$	310 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	117 $\text{Å}^\circ\text{C}$	242 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Electrical Properties	Metric 16 ohm-cm	English 6 ohm-cm	Comments
Dielectric Strength	17.7 kV/mm	450 kV/in	Method A (Short-Time); ASTM D149

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China