

HiFill® POM CO GB20

Acetal (POM) Copolymer
Techmer Engineered Solutions

Message:

HiFill® POM CO GB20 is an Acetal (POM) Copolymer product filled with 20% glass bead. It can be processed by injection molding and is available in North America.
Characteristics include:
Flame Rated
Copolymer

General Information			
Filler / Reinforcement	Glass Bead,20% Filler by Weight		
Features	Copolymer		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.54	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.8	%	ASTM D955
Water Absorption (24 hr)	0.50	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	75		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	51.7	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	3380	MPa	ASTM D790
Flexural Strength	81.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	154	°C	
1.8 MPa, Unannealed	117	°C	
Melting Temperature	166	°C	
CLTE - Flow	6.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹	18	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	71.1	°C
Drying Time	1.0	hr
Rear Temperature	177 to 193	°C
Middle Temperature	188 to 210	°C
Front Temperature	182 to 199	°C
Nozzle Temperature	177 to 204	°C
Processing (Melt) Temp	193 to 216	°C
Mold Temperature	82.2 to 121	°C

NOTE

- Method A (Short-Time)

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