

HiFill® POM CO GF25 CC

Acetal (POM) Copolymer
Techmer Engineered Solutions

Message:

HiFill® POM CO GF25 CC is an Acetal (POM) Copolymer product filled with 25% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- Chemically Coupled
- Copolymer

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Features	Chemically Coupled		
	Copolymer		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	84		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	110	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	7580	MPa	ASTM D790
Flexural Strength	159	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	59	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	430	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	163	°C	
1.8 MPa, Unannealed	166	°C	
Melting Temperature	165	°C	
CLTE - Flow	3.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹	20	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			

1. Method A (Short-Time)

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