

HiFill® POM HO GF40

Acetal (POM) Homopolymer

Techmer Engineered Solutions

Message:

HiFill® POM HO GF40 is an Acetal (POM) Homopolymer product filled with glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Homopolymer

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Homopolymer		
Appearance	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	84		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	117	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	10300	MPa	ASTM D790
Flexural Strength	159	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	75	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.18 mm)	370	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	
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 (1.57 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	93.3	°C	

Drying Time	2.0 to 3.0	hr
Rear Temperature	193 to 218	°C
Middle Temperature	193 to 218	°C
Front Temperature	193 to 218	°C
Processing (Melt) Temp	193 to 227	°C
Mold Temperature	82.2 to 104	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	30 to 60	rpm

NOTE

1. Method A (Short-Time)

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