

# HiFill® POM CO GF20 UV BK

Acetal (POM) Copolymer

Techmer Engineered Solutions

## Message:

HiFill® POM CO GF20 UV BK is an Acetal (POM) Copolymer product filled with 20% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Chemically Coupled

Copolymer

UV Stabilized

General Information			
UL YellowCard	E253782-101773917		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	UV Stabilizer		
Features	Chemically Coupled		
	Copolymer		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.80	%	ASTM D955
Water Absorption (24 hr)	0.50	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	82		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	110	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	6550	MPa	ASTM D790
Flexural Strength	165	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	160	°C	ASTM D648
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	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

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#### Recommended distributors for this material

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