HiFill® PET GF/M40 BK

Polyethylene Terephthalate

Techmer Engineered Solutions

Message:

HiFill® PET GF/M40 BK is a Polyethylene Terephthalate (PET) product filled with 40% glass\mineral. It can be processed by injection molding and is available in North America.

General Information			
Filler / Reinforcement	Glass\Mineral,40% Filler by Weight		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.63	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (24 hr)	0.040	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	117		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	124	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength	200	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	75	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	213	°C	ASTM D648
Melting Temperature	254	°C	
CLTE - Flow	5.9E-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
Injection	**Nominal Value**	**Unit**	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Rear Temperature	271 to 288	°C	
Middle Temperature	271 to 288	°C	
Front Temperature	271 to 288	°C	
Processing (Melt) Temp	274	°C	
Mold Temperature	93.3 to 110	°C	

Back Pressure	0.345 to 0.689	MPa
Screw Speed	30 to 60	rpm

NOTE	
1.	Method A (Short-Time)

Recommended distributors for this material

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