

HiFill® PET GF55 2000

Polyethylene Terephthalate

Techmer Engineered Solutions

Message:

HiFill® PET GF55 2000 is a Polyethylene Terephthalate (PET) product filled with 55% glass fiber. It can be processed by injection molding and is available in North America.

General Information			
Filler / Reinforcement	Glass Fiber,55% Filler by Weight		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	193	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	17200	MPa	ASTM D790
Flexural Strength	303	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	229	°C	ASTM D648
Melting Temperature	254	°C	
CLTE - Flow	1.6E-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
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)	

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Recommended distributors for this material

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