

HiFill® SPS GF40 BK

Syndiotactic Polystyrene
Techmer Engineered Solutions

Message:

HiFill® SPS GF40 BK is a Syndiotactic Polystyrene (SPS) product filled with 40% glass fiber. It can be processed by injection molding and is available in North America.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Syndiotactic		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (24 hr)	9.0E-3	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	121	MPa	ASTM D638
Tensile Elongation (Break)	1.1	%	ASTM D638
Flexural Modulus	11900	MPa	ASTM D790
Flexural Strength	224	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	1300	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	243	°C	
1.8 MPa, Unannealed	263	°C	
CLTE - Flow	1.7E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength ¹	24	kV/mm	ASTM D149
NOTE			

1. Method A (Short-Time)

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