

HiFill® PES GF15 BK

 Techmer Polymer Modifiers - *Polyethersulfone*
General Information
General

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> North America
Filler / Reinforcement	<ul style="list-style-type: none"> Glass Fiber, 15% Filler by Weight
Appearance	<ul style="list-style-type: none"> Black
Processing Method	<ul style="list-style-type: none"> Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.47		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	762000	psi	ASTM D638
Tensile Strength (Yield)	14800	psi	ASTM D638
Tensile Strength (Break)	14800	psi	ASTM D638
Tensile Elongation (Break)	3.3	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	0.90	ft·lb/in	ASTM D256

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	300	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	660 to 720	°F
Middle Temperature	660 to 720	°F
Front Temperature	660 to 720	°F
Nozzle Temperature	660 to 720	°F
Processing (Melt) Temp	670 to 730	°F
Mold Temperature	250 to 320	°F
Injection Rate	Slow-Moderate	
Back Pressure	0.00 to 75.0	psi
Screw Speed	Slow	

