Wednesday, May 13, 2026

HiFill® PSU GF20 BK

Techmer Polymer Modifiers - *Polysulfone*

Units SI

Action **Legend (Open)**

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Appearance	• Black
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.38	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30 to 0.50	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6340	MPa	ASTM D638
Tensile Strength (Yield)	93.1	MPa	ASTM D638
Tensile Strength (Break)	93.1	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	6550	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	69	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	82.2	°C	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	335 to 363	°C
Middle Temperature	343 to 371	°C
Front Temperature	349 to 377	°C
Nozzle Temperature	354 to 382	°C
Processing (Melt) Temp	338 to 385	°C
Mold Temperature	135 to 177	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.172 to 0.517	MPa
Screw Speed	Moderate-Fast	

Notes

[1] Typical properties: these are not to be construed as specifications.

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