Wednesday, May 13, 2026

HiFill® PEEK GF20 A MIL

Techmer Polymer Modifiers - *Polyetheretherketone*

Units SI

Action **Legend (Open)**

General Information

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

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.43	g/cm³	ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	7390	MPa	ASTM D638
Tensile Strength (Yield)	139	MPa	ASTM D638
Tensile Strength (Break)	138	MPa	ASTM D638
Tensile Elongation (Break)	4.5	%	ASTM D638
Flexural Modulus	7310	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	66	J/m	ASTM D256

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	338 to 371	°C
Middle Temperature	343 to 377	°C
Front Temperature	346 to 379	°C
Nozzle Temperature	349 to 382	°C
Processing (Melt) Temp	343 to 385	°C
Mold Temperature	135 to 177	°C
Injection Rate	Slow-Moderate	
Back Pressure	0.345 to 0.689	MPa
Screw Speed	Slow	

Notes

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

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