Wednesday, May 13, 2026

HiFill® PEEK CSR GF30 NAT

Techmer Polymer Modifiers - *Polyetheretherketone*

Units SI

Action **Legend (Open)**

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Appearance	• Natural Color
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.52	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40 to 0.60	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	11400	MPa	ASTM D638
Tensile Strength (Yield)	143	MPa	ASTM D638
Tensile Strength (Break)	141	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	9580	MPa	ASTM D790
Flexural Strength	229	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	80	J/m	ASTM D256

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	349 to 371	°C
Middle Temperature	354 to 377	°C
Front Temperature	360 to 382	°C
Nozzle Temperature	366 to 388	°C
Processing (Melt) Temp	354 to 385	°C
Mold Temperature	177 to 204	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.00 to 0.345	MPa
Screw Speed	Moderate	

Notes

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

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