Wednesday, May 13, 2026

HiFill® PEEK CSR CF20 NAT

Techmer Polymer Modifiers - *Polyetheretherketone*

Units SI

Action **Legend (Open)**

General Information

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

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.37	g/cm³	ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	15200	MPa	ASTM D638
Tensile Strength (Yield)	179	MPa	ASTM D638
Tensile Strength (Break)	179	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	13800	MPa	ASTM D790
Flexural Strength	269	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	80	J/m	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	88		ASTM D2240

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	377 to 399	°C
Middle Temperature	377 to 399	°C
Front Temperature	377 to 399	°C
Nozzle Temperature	377 to 399	°C
Processing (Melt) Temp	377 to 399	°C
Mold Temperature	193 to 204	°C
Injection Rate	Slow-Moderate	
Back Pressure	0.00 to 0.345	MPa
Screw Speed	Slow	

Notes

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

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