Wednesday, May 13, 2026

HiFill® PVDF CF15 BK

Techmer Polymer Modifiers - *Polyvinylidene Fluoride*

Units SI

Action **Legend (Open)**

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Carbon Fiber, 15% Filler by Weight
Appearance	• Black
Processing Method	• Injection Molding

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density / Specific Gravity	1.76	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	2.0 to 2.5	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	12400	MPa	ASTM D638
Tensile Strength (Yield)	55.2	MPa	ASTM D638
Tensile Strength (Break)	48.3	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	64	J/m	ASTM D256
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	< 1.0E+6	ohms	ASTM D257

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature	66	°C
Drying Time	1.0 to 2.0	hr
Rear Temperature	188 to 210	°C
Middle Temperature	193 to 216	°C
Front Temperature	199 to 221	°C
Nozzle Temperature	202 to 224	°C
Processing (Melt) Temp	193 to 224	°C
Mold Temperature	38 to 93	°C
Injection Rate	Slow	
Back Pressure	0.00 to 0.345	MPa
Screw Speed	Slow-Moderate	

Notes

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

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