Wednesday, May 13, 2026

HiFill® PVDF 1003

Units SI

Techmer Polymer Modifiers - *Polyvinylidene Fluoride*

Action **Legend (Open)**

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Appearance	• Natural Color
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)	0.80 to 1.0	%	ASTM D955
Water Absorption (24 hr)	< 0.040	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2000	MPa	ASTM D638
Tensile Strength (Yield)	51.7	MPa	ASTM D638
Tensile Strength (Break)	44.8	MPa	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	120	J/m	ASTM D256

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature	66	°C
Drying Time	2.0 to 3.0	hr
Rear Temperature	171 to 193	°C
Middle Temperature	177 to 199	°C
Front Temperature	182 to 204	°C
Nozzle Temperature	188 to 210	°C
Processing (Melt) Temp	177 to 210	°C
Mold Temperature	10 to 66	°C
Injection Rate	Moderate	
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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