Wednesday, May 13, 2026

HiFill® PEEK GF40 A HF

Techmer Polymer Modifiers - *Polyetheretherketone*

Units SI

Action **Legend (Open)**

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber
Features	• High Flow
Appearance	• Colors Available
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.61	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.12	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	207	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	13800	MPa	ASTM D790
Flexural Strength	303	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	115		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	325	°C	ASTM D648
Melting Temperature	342	°C	
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.8 mm)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	360 to 388	°C
Middle Temperature	360 to 388	°C
Front Temperature	360 to 388	°C
Processing (Melt) Temp	360 to 382	°C
Mold Temperature	177 to 218	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	50 to 100	rpm

Notes

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

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