



HiFill® PEEK GF20 LSB NAT

Techmer Polymer Modifiers - *Polyetheretherketone*

Action



General Information

Product Description

PEKM117223

General

Material Status	• Experimental: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Low Warpage
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.46		ASTM D792
Molding Shrinkage - Flow (0.125 in)	7.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.12	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.30E+6	psi	ASTM D638
Tensile Strength (Break)	20000	psi	ASTM D638
Tensile Elongation (Break)	3.1	%	ASTM D638
Flexural Modulus	1.36E+6	psi	ASTM D790
Flexural Strength	28600	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.6	ft-lb/in	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 (264 psi, Unannealed)	600	°F	ASTM D648
Melting Temperature	648	°F	
CLTE - Flow	1.2E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms-cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	580	V/mil	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	300	°F

Notes

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