HiFill® PEEK CF15 A

Polyetheretherketone

Techmer Engineered Solutions

Message:

HiFill® PEEK CF15 A is a Polyetheretherketone (PEEK) product filled with carbon fiber. It can be processed by injection molding and is available in North America.

General Information			
Filler / Reinforcement	Carbon Fiber		
Appearance	Black		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.39	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	179	MPa	ASTM D638
Tensile Elongation (Break)	4.5	%	ASTM D638
Flexural Modulus	12400	MPa	ASTM D790
Flexural Strength	269	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	316	°C	ASTM D648
CLTE - Flow	3.2E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+4 to 1.0E+6	ohms·cm	ASTM D257
Injection	**Nominal Value**	**Unit**	
Drying Temperature	249	°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	

Recommended distributors for this material

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