GAPEKK™ 3230CF

Polyetherketoneketone

Gharda Chemicals Ltd.

Message:

Product Details: Ultra high performance thermoplastic polymer, 30% carbon fiber reinforced in Polyether Ketone Ketone, semi-crystalline granules suitable for injection molding, easy flow, Black in color.
Application Areas: Suitable for high temperature applications, where higher strength & stiffness in load- bearing applications. Chemically resistant to aggressive environments, suitable for sterilization for medical and food contact applications.

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Food Contact Acceptable Good Abrasion Resistance Good Chemical Resistance Good Flow Good Sterilizability High Heat Resistance Semi Crystalline		
Uses	High Temperature Applications Medical/Healthcare Applications Non-specific Food Applications		
Appearance	Black		
Forms	Granules		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.41	g/cm³	
Molding Shrinkage [1]			
Flow	0.11	%	
Across Flow	0.80	%	
Water Absorption (Equilibrium)	0.050	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale, 23°C)	108		ASTM D785
Durometer Hardness (Shore D)	91		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	26000	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	260	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.0 to 3.0	%	ASTM D638
Flexural Modulus (23°C)	24.5	MPa	ASTM D790
Flexural Strength (23°C)	410	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	70	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	369	°C	ASTM D648
Continuous Use Temperature	300	°C	UL 746B
Glass Transition Temperature	176	°C	ASTM D3418
Melting Temperature	396	°C	ASTM D3418
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+6	ohms	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.800 mm)	V-0		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	150	°C	
Drying Time	4.0 to 6.0	hr	
Hopper Temperature	60.0 to 80.0	°C	
Nozzle Temperature	435	°C	
Processing (Melt) Temp	400 to 435	°C	
Mold Temperature	200 to 220	°C	
NOTE			
1.	435°C nozzle, 220°C Mold		

Recommended distributors for this material

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