PEEK-SG101F80
Polyetheretherketone (PEEK)

TECHNICAL DATA SHEET

Description

Sciengy® PEEK-SGC101F80 is a 10% carbon fiber reinforced PEEK compound, easy flow, developed to provide higher strength, wear resistance, low coefficient of friction and chemical resistant.

CF10%, Easy Flow, Standard Carbon Fiber

Series	Glass fiber reinforced
ISO Designation	>PEEK-GF10<
Process Method	Injection molding

Properties

Physical	**Value**	**Units**	**Test Standard**
Density	1.34	g/cm³	ISO 1183
Mold Shrinkage (Machine Direction)	0.20	%	GB/T 15585
Mold Shrinkage (Transverse Direction)	0.50	%	GB/T 15585
Flammability(1.6 mm)	V-0		IEC60695
Mechanical	**Value**	**Units**	**Test Standard**
Tensile Stress at Break (5 mm/min)	205	MPa	ISO 527
Tensile Modulus at Break (1 mm/min)	13.0	GPa	ISO 527
Elongation at Break (23℃)	6.5	%	ISO 527
Flexural Modulus at Break (23℃)	9.5	GPa	ISO 178
Thermal	**Value**	**Units**	**Test Standard**
Melting Temperature (10°C/min)	343	°C	ISO 11357
Heat Deflection Temp. High Load (1.8 MPa)	320	°C	ISO 75
Glass Transition (Tg)	150	°C	ISO 11357
Electrical Properties	**Value**	**Units**	**Test Standard**
Typical Processing Conditions	**Value**	**Units**	**Test Standard**
Drying Temp. / Time	150℃&3h or 120℃&5h(residual moisture<0.02%)		
Injection Molding Melt Temp.	180℃~210℃		
Temperature Settings	375/385/390/395℃(Nozzle)		
Hopper Temperature	Not greater than 100℃		

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Gate	>2mm or 0.5*part thickness		

Disclaimer

Please refer to Material Safety Data before using this product, The information contained in this data sheet is based on tests of research of Sciengy New Materials Co,.Ltd(Sciengy). The user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the users specific application. Sciengy no warranty is given concerning the accuracy or completeness thereof.