PEI-SG002CF30
Polyetherimide (PEI)

TECHNICAL DATA SHEET

Description

Sciengy® PEI-SG002CF30 is an 30% carbon fiber reinforced amorphous polyetherimide (PEI) resin, standard flow with high glass transition temperature (Tg) of 217°C , Provide excellent mechanical, electrical, good stiffness and dimensional properties with good antistatic properties up to high temperatures,which is suitable for injection molding.

CF30%, Standard, Black

Series	Carbon fiber reinforced
ISO Designation	>PEI-CF30<
Process Method	Injection molding

Properties

Physical	Value	Units	Test Standard
Density	1.39	g/cm³	ISO 1183
Mold Shrinkage	0.3-0.5	%	ISO 2577, 294-4
Melt Flow Rate (337℃. 6.6Kg)	8-15	g/10min	ISO 1133
Water Absorption (24h @23°C)	0.25	%	ISO 62
Mechanical	**Value**	**Units**	**Test Standard**
Tensile Stress at Break (5 mm/min)	220	MPa	ISO 527
Tensile Modulus at Break (1 mm/min)	27	GPa	ISO 527
Elongation at Break (23℃)	1.4	%	ISO 527
Flexural Modulus at Break (23℃)	18.0	GPa	ISO 178
Flexural Strength at Break (23℃)	280	MPa	ISO 178
Notched Izod Impact Strength @23℃ (V-notched)	6.5	kJ/m²	ISO 180
Thermal	**Value**	**Units**	**Test Standard**
Heat Deflection Temp. High Load (1.8 MPa)	205	°C	ISO 75
Coeff. Of Linear Them. Expansion (parallel)	0.25	E-4/°C	ISO 11359-2
Coeff. Of Linear Them. Expansion (normal)	0.25	E-4/°C	ISO 11359-2
Flammability (0.3 mm)	V-0	Class	UL-94
Flammability (3.0 mm)	V-0	Class	UL-94
Glass Transition (Tg)	217	°C	ISO 11357

PEI-SG002CF30
Polyetherimide (PEI)

TECHNICAL DATA SHEET

Electrical Properties	Value	Units	Test Standard
Volume Resistivity	10^3	Ω·cm	IEC 60093
Surface Resistivity	10^3	Ω	IEC 60093
Typical Processing Conditions	**Value**	**Units**	**Test Standard**
Drying Temp. / Time	150℃&4~6h	/	/
Injection Speed	Moderate to High	/	/
Injection Molding Melt Temp.	350~400	°C	/
Injection Molding Mold Temp.	140~180	°C	/

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.