

PEEK-SGC101ESD

Polyetheretherketone (PEEK)

TECHNICAL DATA SHEET

Description

Sciengy® PEEK-SGC101ESD is PEEK compound with special formula to have antistatic properties up to high temperatures, easy flow, which is suitable for injection molding.

Antistatic, Easy Flow

Series	Special Functional
ISO Designation	>PEEK-CF<
Process Method	Injection molding

Properties

Physical	Value	Units	Test Standard
Density	1.30	g/cm ³	ISO 1183
Mold Shrinkage (Machine Direction)	1.0	%	GB/T 15585
Mold Shrinkage (Transverse Direction)	1.3	%	GB/T 15585
Water Absorption (24h @23°C)	0.3	%	ISO 62
Flammability(1.6 mm)	V-0		IEC60695
Mechanical	Value	Units	Test Standard
Tensile Stress at Break (5 mm/min)	110	MPa	ISO 527
Tensile Modulus at Break (1 mm/min)	5.0	GPa	ISO 527
Elongation at Break (23°C)	12	%	ISO 527
Flexural Modulus at Break (23°C)	4.5	GPa	ISO 178
Flexural Strength at Break	165	MPa	ISO178
Charpy Impact Strength @23°C (V-notched)	7.0	kJ/m ²	ISO 179
Thermal	Value	Units	Test Standard
Melting Temperature (10°C/min)	343	°C	ISO 11357
Glass Transition (Tg)	150	°C	ISO 11357
Electrical Properties	Value	Units	Test Standard
Surface Resistivity	10 ^{^6}	Ω	IEC 60093
Typical Processing Conditions	Value	Units	Test Standard
Drying Temp. / Time	150°C&3h or 120°C&5h(residual moisture<0.02%)		
Injection Molding Melt Temp.	180°C~210°C		ISO 294

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Temperature Settings	375/385/390/395/395°C(Nozzle)	
Hopper Temperature	Not greater than 100°C	
Gate	>2mm or 0.5*part thickness	