

PEEK-SGRN101FP

Polyetheretherketone (PEEK)

TECHNICAL DATA SHEET

Description

Sciengy® PEEK-SGRN101FP is a fine powder type, unreinforced PolyEtherEtherKetone (PEEK). It is applied to mold pressing.

Unfilled, Fine powder

Series

Unreinforced

ISO Designation

>Unfilled PEEK<

Process Method

Mold compression molding

Properties

Physical	Value	Units	Test Standard
Bulk Density	30.0	g/100ml	GB/T 23771
Melt Viscosity (380°C.77HZ)	620.0	Pas	-
Particle size (D50)	50.0	µm	ISO 13320
Water Absorption (23°C-sat)	0.2	%	ISO 62
Mechanical	Value	Units	Test Standard
Tensile Stress at Break (5 mm/min)	97	MPa	ISO 527
Elongation at Break (23°C)	30	%	ISO 527
Flexural Modulus at Break (23°C)	3.8	GPa	ISO 178
Flexural Strength at Break	160	MPa	ISO178
Charpy Impact Strength @23°C (V-notched)	8.5	kJ/m ²	ISO 179
Thermal	Value	Units	Test Standard
Melting Point	343.00	°C	ISO 11357
Heat Deflection Temp. High Load (1.8 MPa)	152	°C	ISO 75
Flammability (0.3 mm)	V-0	Class	UL-94
Flammability (3.0 mm)	V-0	Class	UL-94
Glass Transition (Tg)	150	°C	ISO 11357
Thermal conductivity (23°C)	0.29	W/mk	ISO 22007-4
Electrical Properties	Value	Units	Test Standard
Typical Processing Conditions	Value	Units	Test Standard

PEEK-SGRN101FP

Polyetheretherketone (PEEK)

TECHNICAL DATA SHEET

Drying Temp. / Time	150℃&3h OR 120℃&5h(residual moisture<0.02%)	
Process Temperature	380℃~400℃	℃