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	0.30	g/cm³	ISO 60
MVR(380℃.5kg)	20.0	cm³/10min	ISO 1133
Particle size (D50)	50.0	μm	ISO 13320
Mechanical	**Value**	**Units**	**Test Standard**
Tensile Stress at Break	96	MPa	ISO 527
Elongation at Break (23℃)	30	%	ISO 527
Flexural Modulus at Break (23℃)	3.8	GPa	ISO 178
Flexural Strength at Break (23℃)	160	MPa	ISO 178
Notched Izod Impact Strength @23℃ (V-notched)	8.5	kJ/m²	ISO 180
Thermal	**Value**	**Units**	**Test Standard**
Glass transition Temp.	150	℃	ISO 11357
Melting Point	343	°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
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 Speed	380℃~400℃	/	

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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.