

Polygen SC6C

Polyphenylene Sulfide

Shanghai Polygen Science and Technology Co., Ltd.

Message:

carbon fiber reinforced PPS, excellent wear resistance, low coefficient of friction, ultra-high strength, excellent heat and chemical resistance

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Low friction coefficient		
	High strength		
	Good chemical resistance		
	Good wear resistance		
	Heat resistance, high		
Appearance	Natural color		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow	0.60	%	ISO 294-4
Flow	0.30	%	ISO 294-4
Water Absorption (Saturation, 23°C)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	200	MPa	ISO 527-2
Tensile Strain (Break)	1.6	%	ISO 527-2
Flexural Modulus	20000	MPa	ISO 178
Flexural Stress	280	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	10	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	265	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120 - 140	°C	
Drying Time	2.0 - 4.0	hr	
Processing (Melt) Temp	290 - 320	°C	
Mold Temperature	130 - 150	°C	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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