

Polygen SG8R-BK

Polyphenylene Sulfide

Shanghai Polygen Science and Technology Co., Ltd.

Message:

40% chopped glass fiber reinforced PPS, enhanced toughness, excellent heat and chemical resistance

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Features	Good chemical resistance		
	Heat resistance, high		
	Good toughness		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	1.63	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow	0.50	%	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	150	MPa	ISO 527-2
Tensile Strain (Break)	1.5	%	ISO 527-2
Flexural Modulus	12000	MPa	ISO 178
Flexural Stress	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	14	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	260	°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

