

Susteel® GS-40

Polyphenylene Sulfide

TOSOH Corporation

Message:

40% Glass fiber reinforced / Low-flash and toughness

General Information			
UL YellowCard	E102861-218113	E102861-530896	E102861-218112
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Good Toughness		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.64	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.80	%	
Flow	0.30	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	176	MPa	ISO 527-2
Tensile Strain (Break)	1.5	%	ISO 527-2
Flexural Modulus	14700	MPa	ISO 178
Flexural Stress	275	MPa	ISO 178
Tensile Weld Strength	60.0	MPa	Internal Method
Bar Flow Length	175	mm	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	82	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	> 260	°C	ISO 75-2/A
Melting Temperature	285	°C	Internal Method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms · cm	IEC 60093
Electric Strength	16	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.90		IEC 60250
Dissipation Factor (1 MHz)	1.4E-3		IEC 60250
Comparative Tracking Index (CTI)	PLC 4		UL 746
Comparative Tracking Index	125	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

Injection	Nominal Value	Unit
Drying Temperature	120 to 150	°C
Drying Time	2.0 to 5.0	hr
Rear Temperature	270 to 300	°C
Middle Temperature	270 to 300	°C
Nozzle Temperature	290 to 330	°C
Mold Temperature	135 to 150	°C
Injection Pressure	50.0 to 150	MPa
Injection Rate	Moderate-Fast	
Back Pressure	1.00 to 20.0	MPa
Screw Speed	100 to 150	rpm

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Recommended distributors for this material

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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