

Susteel® GS-30

Polyphenylene Sulfide

TOSOH Corporation

Message:

This grade is specialized in toughness and low-flash.

General Information			
UL YellowCard	E102861-218110	E102861-218111	
Filler / Reinforcement	Glass\Mineral		
Features	Good Toughness		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (315°C/5.0 kg)	35	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow	0.30	%	
Across Flow	0.80	%	
Water Absorption (Equilibrium)	< 0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	170	MPa	ASTM D638
Tensile Elongation (Break)	2.2	%	ASTM D638
Flexural Modulus	12100	MPa	ASTM D790
Flexural Strength	261	MPa	ASTM D790
Tensile Weld Strength	62.0	MPa	ASTM D638
Bar Flow Length (1.00 mm)	200	mm	Internal Method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	72	J/m	ASTM D256
Unnotched Izod Impact	500	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 260	°C	ASTM D648
Melting Temperature	285	°C	Internal Method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms · cm	ASTM D257
Dielectric Strength	16	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.90		ASTM D150

Dissipation Factor (1 MHz)	1.4E-3		ASTM D150
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	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

