

SCHULADUR® A1 GF 30 LW

Polybutylene Terephthalate + PET

A. Schulman Europe

Message:

30% glass fibre reinforced, laser weldable PBT/PET blend

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Laser welding		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PBT-PET-GF		
Physical	Nominal Value	Unit	Test Method
Density	1.57	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	24.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	135	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.0	%	ISO 527-2/1A/5
Flexural Modulus ¹	9700	MPa	ISO 178
Flexural Stress ²	200	MPa	ISO 178
Flexural Strain at Flexural Strength	2.5	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	ISO 179/1eA
23°C	7.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	44	kJ/m ²	ISO 179/1eU
23°C	48	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	210	°C	ISO 75-2/Bf
1.8 MPa, not annealed	190	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	215	°C	ISO 306/A50
--	192	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms · cm	IEC 60093
Comparative Tracking Index	175	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Burning Rate (2.00 mm)	55	mm/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
1.60 mm	HB		IEC 60695-11-10, -20
3.20 mm	HB		IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
1.50 mm	675	°C	IEC 60695-2-12
3.00 mm	675	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.50 mm	700	°C	IEC 60695-2-13
3.00 mm	700	°C	IEC 60695-2-13

Additional Information

- 1.)
Not for use in food contact applications2.)
Not for use in medical or pharmaceutical applications

NOTE

1. 2.0 mm/min
2. 2.0 mm/min

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

