

SCHULADUR® A1 GF 50

Polybutylene Terephthalate + PET

A. Schulman Europe

Message:

50% glass fibre reinforced PBT/PET blend

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.75	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	20.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18500	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	175	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.5	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	16000	MPa	ISO 178
Flexural Stress (23°C)	245	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	10	kJ/m ²	ISO 179/1eA
23°C	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	60	kJ/m ²	ISO 179/1eU
23°C	60	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	220	°C	ISO 75-2/Bf
1.8 MPa, not annealed	203	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	218	°C	ISO 306/A50
--	201	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Burning Rate (2.00 mm)	25	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	725	°C	IEC 60695-2-12

3.00 mm	825	°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	800	°C	IEC 60695-2-13

Additional Information

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

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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

