

SCHULADUR® A GB 20

Polybutylene Terephthalate

A. Schulman Europe

Message:

20% glass bead reinforced PBT-grade

General Information			
Filler / Reinforcement	Glass beads, 20% filler by weight		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	15.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	50.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	6.0	%	ISO 527-2/1A/5
Flexural Modulus ¹	3300	MPa	ISO 178
Flexural Stress ²	83.0	MPa	ISO 178
Flexural Strain at Break	8.0	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.5	kJ/m ²	ISO 179/1eA
23°C	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	30	kJ/m ²	ISO 179/1eU
23°C	50	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	175	°C	ISO 75-2/Bf
1.8 MPa, not annealed	94.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	218	°C	ISO 306/A50
--	184	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Burning Rate (2.00 mm)	23	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	725	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.50 mm	750	°C	IEC 60695-2-13
3.00 mm	750	°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 |

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