SCHULADUR® A1 GF 30

Polybutylene Terephthalate + PET

A. Schulman Europe

Message:

30% glass fibre reinforced PBT/PET-blend

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PBT+PET-GF		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.55	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	20.0	cm³/10min	ISO 1133
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	263	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	11000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	142	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.1	%	ISO 527-2/1A/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m²	ISO 179/1eA
23°C	8.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	50	kJ/m²	ISO 179/1eU
23°C	55	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	225	°C	ISO 75-2/Bf
1.8 MPa, not annealed	205	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	218	°C	ISO 306/A50
--	204	°C	ISO 306/B50
Ball Pressure Test (200°C)	Pass		IEC 60695-10-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+16	ohms	IEC 60093
Volume Resistivity	> 1.0E+12	ohms·cm	IEC 60093
Comparative Tracking Index	300	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Burning Rate (2.00 mm)	26	mm/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
1.5 mm	HB		IEC 60695-11-10, -20
3.0 mm	HB		IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
1.5 mm	700	°C	IEC 60695-2-12
3.0 mm	800	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.5 mm	725	°C	IEC 60695-2-13
3.0 mm	825	°C	IEC 60695-2-13
Oxygen Index	19	%	ISO 4589-2

Additional Information

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

Recommended distributors for this material

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