

SCHULADUR® A3 GF 30

Polybutylene Terephthalate + ASA

A. Schulman Europe

Message:

30% glass fibre reinforced PBT/ASA-blend with high surface quality and reduced warpage

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Low warpage		
	Excellent appearance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	20.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	184	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9300	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	118	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m ²	ISO 179/1eA
23°C	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	48	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	214	°C	ISO 75-2/Bf
1.8 MPa, not annealed	180	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	210	°C	ISO 306/A50
--	145	°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+14	ohms · cm	IEC 60093

Comparative Tracking Index	400	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate (2.00 mm)	16	mm/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
1.50 mm	HB		IEC 60695-11-10, -20
3.00 mm	HB		IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
1.50 mm	700	°C	IEC 60695-2-12
3.00 mm	750	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.50 mm	725	°C	IEC 60695-2-13
3.00 mm	775	°C	IEC 60695-2-13
Oxygen Index	20	%	ISO 4589-2
Additional Information			

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

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