

SCHULADUR® A GF 30 HIR SCHWARZ

Polybutylene Terephthalate

A. Schulman Europe

Message:

30% glass fiber reinforced, hydrolysis stabilized PBT

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	10.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	127	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.8	%	ISO 527-2/1A/5
Flexural Modulus	7800	MPa	ISO 178
Flexural Stress	200	MPa	ISO 178
Flexural Strain at Flexural Strength	4.0	%	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	13	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	75	kJ/m ²	ISO 179/1eU
23°C	75	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	221	°C	ISO 75-2/Bf
1.8 MPa, not annealed	203	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	219	°C	ISO 306/A50
--	205	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Burning Rate	40	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	750	°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	775	°C	IEC 60695-2-13
3.00 mm	775	°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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