

SCHULADUR® A GF 15 HI

Polybutylene Terephthalate

A. Schulman Europe

Message:

15% glass fibre reinforced and impact modified PBT-grade

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Impact modification		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PBT-GF		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	15.0	cm³/10min	ISO 1133
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5200	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	92.5	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.8	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m²	ISO 179/1eA
23°C	11	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	33	kJ/m²	ISO 179/1eU
23°C	61	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	217	°C	ISO 75-2/Bf
1.8 MPa, not annealed	190	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	219	°C	ISO 306/A50
--	197	°C	ISO 306/B50
Ball Pressure Test (200°C)	Pass		IEC 60695-10-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms · cm	IEC 60093
Comparative Tracking Index	375	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method

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
Oxygen Index	19	%	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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