

SCHULADUR® A GF 30 FR 2 natural

Polybutylene Terephthalate

A. Schulman Europe

Message:

flame retardant PBT with 30% glass fiber, halogenfree

General Information			
UL YellowCard	E86615-102286756		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Fill		
	Halogen-free		
	Flame retardancy		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PBT GF 30 FR 40		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	30.0	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10800	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	115	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.0	%	ISO 527-2/1A/5
Flexural Modulus ¹	10900	MPa	ISO 178
Flexural Stress ² (2.3% strain)	190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	10	kJ/m²	ISO 179/1eA
23°C	8.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	40	kJ/m²	ISO 179/1eU
23°C	42	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	218	°C	ISO 75-2/Bf
1.8 MPa, not annealed	211	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	213	°C	ISO 306/A50
--	203	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method

Comparative Tracking Index	475	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.800 mm	V-0		IEC 60695-11-10, -20
	V-0		
1.60 mm	5V		IEC 60695-11-10, -20
3.20 mm	V-0		IEC 60695-11-10, -20
2.00 mm	5V		IEC 60695-11-10, -20
Glow Wire Ignition Temperature			IEC 60695-2-13
0.750 mm	775	°C	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			
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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