

SCHULADUR® E GF 35 SCHWARZ

Polyethylene Terephthalate

A. Schulman Europe

Message:

35% glass fibre reinforced PET-grade

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.63	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	15.0	cm ³ /10min	ISO 1133
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	180	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.0	%	ISO 527-2/1A/5
Flexural Modulus	11500	MPa	ISO 178
Flexural Stress	255	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.5	kJ/m ²	ISO 179/1eA
23°C	8.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	45	kJ/m ²	ISO 179/1eU
23°C	45	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	248	°C	ISO 75-2/Bf
1.8 MPa, not annealed	227	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	244	°C	ISO 306/A50
--	234	°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	150	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method

Burning Rate (2.00 mm)	20	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	675	°C	IEC 60695-2-12
3.00 mm	775	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.50 mm	700	°C	IEC 60695-2-13
3.00 mm	800	°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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