

Technical Data Sheet

*Schuladur*E GF20 BLK968001



Polyethylene Terephthalate

Product Description

20% glass fibre reinforced PET compound

Processing Method Injection Molding

Filler/Reinforcement Glass Fiber, 20%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (260 °C/2.16 kg)	10	cm ³ /10 min	ISO 1133
Density, (Method A)	1.52	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	2.0	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	8150	MPa	ISO 178
Tensile Stress at Break, (Type 1A, 5 mm/min)	130	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	9000	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min, 2.5%)	185	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	6.0	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	6.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	30	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	30	kJ/m ²	ISO 179
Hardness			
Ball Pressure Test, (220 °C)	Pass		IEC 60695-10-2
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	235	°C	ISO 306
(A (10N), 50 °C/h)	244	°C	ISO 306
Deflection Temperature Under Load Annealed (0.45 MPa), (Flatwise)	245	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	220	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	200	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093

Flammable

Burning Rate			
(2.00 mm)	22	mm/min	FMVSS 302
(2.00 mm)	22	mm/min	ISO 3795
Glow Wire Flammability Index			
(1.5 mm)	725	°C	IEC 60695-2-12
(3.0 mm)	775	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			
(1.5 mm)	750	°C	IEC 60695-2-13
(3.0 mm)	800	°C	IEC 60695-2-13

UL Information

Flammability Classification		
(1.5 mm)	HB	IEC 60695-11-10, -20
(3.0 mm)	HB	IEC 60695-11-10, -20

Injection Parameters	Nominal	
	Value	Units
Drying Time	4.0 to 6.0	hr
Drying Temperature	120	°C
Processing (Melt) Temp	280 to 290	°C
Mold Temperature	80 to 110	°C