

Technical Data Sheet

Schuladur A GF10 HI2 BLK968001



Polybutylene Terephthalate

Product Description

10% glass fibre reinforced PBT compound with improved impact properties

Processing Method Injection Molding

Filler/Reinforcement Glass Fiber, 10%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (250 °C/2.16 kg)	30	cm ³ /10 min	ISO 1133
Density, (Method A)	1.37	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	3.5	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	3800	MPa	ISO 178
Tensile Stress at Break, (Type 1A, 5 mm/min)	90.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	4500	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min, 4.6%)	122	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	5.0	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	35	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	35	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	205	°C	ISO 306
(A (10N), 50 °C/h)	218	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	215	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	185	°C	ISO 75-2/A
Electrical			
Volume Resistivity	100000000000000	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI), (Solution A)	300	V	IEC 60112
Surface Resistivity	1E+15	ohm	IEC 60093
Flammable			

Burning Rate			
(2.00 mm)	49	mm/min	ISO 3795
(2.00 mm)	49	mm/min	FMVSS 302
Additional Information			
Water Absorption 23C/50RH	0.3	%	ISO 62
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	2.0 to 4.0	hr
Drying Temperature	120	°C
Processing (Melt) Temp	250 to 260	°C
Mold Temperature	70 to 90	°C