

Technical Data Sheet

Schulaketon GF10 BLK968001



Polyketone, Aliphatic

Product Description

10% glass fiber reinforced aliphatic Polyketone

Processing Method	Injection Molding
Filler/Reinforcement	Glass Fiber, 10%
Resin ID	PK GF10

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (240 °C/2.16 kg)	20	cm ³ /10 min	ISO 1133
Density, (Method A)	1.30	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	14	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	61.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	3190	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(-40 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise)	8.6	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	60	kJ/m ²	ISO 179
(-40 °C, Type 1, Edgewise)	50	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	198	°C	ISO 306
(A (10N), 50 °C/h)	215	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (4.00 mm, Flatwise)	214	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (4.00 mm, Flatwise)	199	°C	ISO 75-2/A
Electrical			
Volume Resistivity	10000000000000	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI), (Solution A)	600	V	IEC 60112
Surface Resistivity	1E+15	ohm	IEC 60093
Flammable			

Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
Glow Wire Flammability Index			
(1.5 mm)	700	°C	IEC 60695-2-12
(3.0 mm)	700	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			
(1.5 mm)	725	°C	IEC 60695-2-13
(3.0 mm)	725	°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	3.0 to 4.0	hr
Drying Temperature	80	°C
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	245 to 260	°C
Mold Temperature	60 to 120	°C