Technical Data Sheet

Schulablend SBL M/MB 6101M GF20 NATURAL

Polycarbonate + ABS

Product Description

20% glass fiber reinforced ABS/PC blend. (Former name: SCHULABLEND M/MB 5 GF20)

Processing Method	Injection Molding
Filler/Reinforcement	Glass Fiber, 20%
Resin ID	ABS+PC-GF

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (260 °C/5.0 kg)	10	cm³/10 min	ISO 1133
Density, (Method A)	1.27	g/cm³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	2.0	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	96.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	5900	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	8.0	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	7.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	25	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	30	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	147	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	132	°C	ISO 306
(A (10N), 50 °C/h)	142	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	132	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	121	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Surface Resistivity	>1.0E+15	ohm	IEC 60093
Flammable			

Burning Rate			
(2.00 mm)	60	mm/min	ISO 3795
(2.00 mm)	60	mm/min	FMVSS 302
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	hr
Drying Temperature	100	°C
Suggested Max Moisture	0.02	%
Processing (Melt) Temp	260 to 280	°C
Mold Temperature	70 to 100	°C