Technical Data Sheet

Schulablend M/MB 5 GF10 WHI80510

Polycarbonate + ABS

Product Description
10% glass fibre reinforced ABS/PC blend

Processing Method	Injection Molding
Filler/Reinforcement	Glass Fiber, 10%
Resin ID	ABS+PC-GF

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (260 °C/5.0 kg)	16	cm³/10 min	ISO 1133
Density, (Method A)	1.19	g/cm³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	3.0	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	74.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	3600	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	11	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	10	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	39	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	32	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	124	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (B (50N), 50 °C/h)	130	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	131	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	119	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*cm	IEC 60093
Surface Resistivity	>1.0E+15	ohm	IEC 60093
Flammable			
Burning Rate	<40	mm/min	ISO 3795
(FMVSS 302)	<40	mm/min	FMVSS 302
Additional Information			

Water Absorption 23C/50RH	0.2	%	ISO 62

Injection Parameters	Nominal Value	Units
Drying Time	4.0 to 6.0	hr
Drying Temperature	100	°C
Suggested Max Moisture	<0.050	%
Processing (Melt) Temp	260 to 270	°C
Mold Temperature	70 to 90	°C