Technical Data Sheet

Schulablend M/MK 6101 GF8 SFULE BLK73920

Acrylonitrile Butadiene Styrene + PA

Product Description

8% glass fiber reinforced ABS/PA6 blend with high impact strength, high flow, UV-stabilized. (Former name: M/MK GF8 SF UV)

Processing Method	Injection Molding
Filler/Reinforcement	Glass Fiber, 8.0%
Resin ID	PA ABS GF8

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate			
(250 °C/5.0 kg)	5.0	cm³/10 min	ISO 1133
(260 °C/5.0 kg)	9.0	cm³/10 min	ISO 1133
Density, (Method A)	1.13	g/cm³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1, 5 mm/min)	3.5	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	2400	MPa	ISO 178
Tensile Stress at Break			
(Type 1, 5 mm/min)	47.0	MPa	ISO 527-2
(Type 1, 5 mm/min) - Conditioned	40.0	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	2700	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	1700	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 3.5%)	70.0	MPa	ISO 178
(2.0 mm/min, 6.0%)	78.0	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	15	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	5.0	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	24	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	55	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	70	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	80	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	109	MPa	ISO 2039-1

Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	135	°C	ISO 306
(A (10N), 50 °C/h)	200	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	94.0	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	160	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
- Conditioned	>1.0E+10	ohm*m	IEC 62631-3-1
Surface Resistivity	>1.0E+15	ohm	IEC 60093
- Conditioned	>1.0E+12	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	40	mm/min	ISO 3795
(2.00 mm)	40	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	80	°C
Suggested Max Moisture	0.040 to 0.10	%
Processing (Melt) Temp	230 to 270	°C
Mold Temperature	40 to 80	°C