Technical Data Sheet

Schulablend M/MW 5201 MT SF U BLK73225

Acrylonitrile Styrene Acrylate + PA

Product Description

Nanocomposite based on ASA/PA6 blend with good dimensional stability, high flow, UV stabilized. (Former name: M/MW NC100 SF K2083)

Processing Method	Injection Molding
Resin ID	ASA+PA

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (250 °C/5.0 kg)	10	cm³/10 min	ISO 1133
Density, (Method A)	1.17	g/cm³	ISO 1183
Mechanical			
Flexural Strain at Flexural Strength	5.1	%	ISO 178
Tensile Stress at Yield, (Type 1A, 50 mm/min)	55.0	MPa	ISO 527-2
Nominal Tensile Strain at Break, (50 mm/min, Type 1A)	25	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	3000	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 50 mm/min)	3.2	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	3200	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min)	75.6	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	10	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)	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	No Break		ISO 179
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	115	°C	ISO 306
(A (10N), 50 °C/h)	205	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	105	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	65.0	°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)	30	mm/min	FMVSS 302
(2.00 mm)	30	mm/min	ISO 3795
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