

## Technical Data Sheet

**Schulblend M/MW 6101 MT SF U BLK 71255**

Acrylonitrile Styrene Acrylate + PA

**Product Description**

Nanocomposite filled PA/ASA 6-blend with increased dimensional stability, high flow, improved heat performance and UV stabilized. (Former name: M/MW NC 100 SF UV)

**Processing Method** Injection Molding

<b>Typical Properties</b>	<b>Nominal Value</b>	<b>Units</b>	<b>Test Method</b>
<b>Physical</b>			
Melt Volume Flow Rate, (250 °C/5.0 kg)	25	cm <sup>3</sup> /10 min	ISO 1133
Density, (Method A)	1.19	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Stress at Yield			
(Type 1A, 50 mm/min)	51.0	MPa	ISO 527-2
(Type 1A, 50 mm/min) - Conditioned	32.0	MPa	ISO 527-2
Tensile Strain at Yield			
(Type 1A, 50 mm/min)	3.7	%	ISO 527-2
(Type 1A, 50 mm/min) - Conditioned	16	%	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	3100	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	1400	MPa	ISO 527-1
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	22	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	110	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179
<b>Thermal</b>			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	139	°C	ISO 306
(A (10N), 50 °C/h)	208	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	95.0	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	55.0	°C	ISO 75-2/A
<b>Electrical</b>			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
- Conditioned	>1.0E+13	ohm*m	IEC 62631-3-1

Surface Resistivity	>1.0E+15	ohm	IEC 60093
- Conditioned	>1.0E+15	ohm	IEC 60093
<b>Flammable</b>			
Burning Rate			
(2.00 mm)	40	mm/min	ISO 3795
(2.00 mm)	40	mm/min	FMVSS 302
<b>UL Information</b>			
Flammability Classification			
(1.6 mm)	HB		IEC 60695-11-10, -20
(1.6 mm) - Conditioned	HB		IEC 60695-11-10, -20

<b>Injection Parameters</b>	<b>Nominal Value</b>	<b>Units</b>
Nozzle Temperature	260	°C
Processing (Melt) Temp	230 to 260	°C
Front Temperature	250	°C
Hopper Temperature	50	°C
Middle Temperature	230 to 240	°C
Rear Temperature	220	°C
Injection Rate	Fast	
Back Pressure	5.00 to 15.0	MPa
Mold Temperature	30 to 80	°C
Injection Pressure	100 to 150	MPa
Cushion	2.00 to 5.00	mm