Technical Data Sheet

SCHULABLEND® (ASA/PA) M/MW 6101 MT SF U

Acrylonitrile Styrene Acrylate + PA
Engineering Plastics

Product Description

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

General

Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.19	--	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	25	--	cm³/10min	ISO 1133
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	450000 (3100)	203000 (1400)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Yield)	7400 (51.0)	4640 (32.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	3.7	16	%	ISO 527-2/1A/50
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	10 (22)	50 (110)	ft·lb/in² (kJ/m²)	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F (23°C)	No Break	No Break		
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	203 (95.0)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	131 (55.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	406 (208)	--	°F (°C)	ISO 306/A50
--	282 (139)	--	°F (°C)	ISO 306/B50
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	> 1.0E+13	ohms·m	IEC 62631-3-1
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate				
0.0787 in (2.00 mm)	1.6 (40)	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	1.6 (40)	--	in/min (mm/min)	FMVSS 302
Flammability Classification				IEC 60695-11-10, -20
0.06 in (1.6 mm)	HB	HB		

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Additional Information

1.) Not for use in food contact applications
2.) Not for use in medical or pharmaceutical applications

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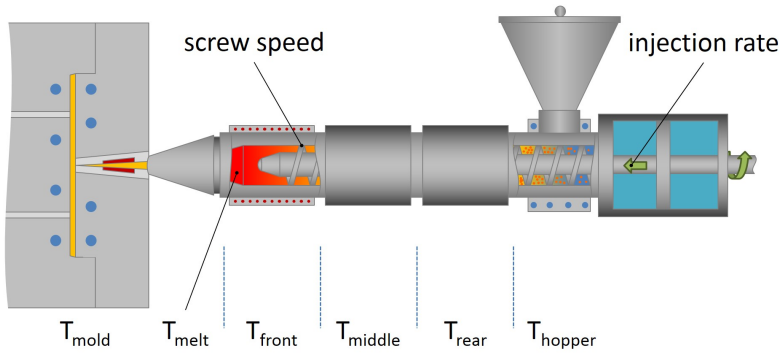

Injection	Dry (English)	Dry (SI)
Suggested Max Regrind	20 %	20 %
Hopper Temperature	122 °F	50 °C
Rear Temperature	428 °F	220 °C
Middle Temperature	446 to 464 °F	230 to 240 °C
Front Temperature	482 °F	250 °C
Nozzle Temperature	500 °F	260 °C
Processing (Melt) Temp	446 to 500 °F	230 to 260 °C
Mold Temperature	86 to 176 °F	30 to 80 °C
Injection Pressure	14500 to 21800 psi	100 to 150 MPa
Injection Rate	Fast	Fast
Back Pressure	725 to 2180 psi	5.00 to 15.0 MPa
Cushion	0.0787 to 0.197 in	2.00 to 5.00 mm

Notes

These are typical property values not to be construed as specification limits.