Technical Data Sheet

SCHULABLEND® (ASA/PA) M/MW 6102 MT U

Acrylonitrile Styrene Acrylate + PA
Engineering Plastics

Product Description
Nanocomposite based on ASA/PA-blend for high dimensional stability. (Former name: SCHULABLEND® M/MW NC800 UV)

General		
Features	• Good Dimensional Stability	• UV Stabilized
Processing Method	• Injection Molding	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.17	--	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	20	--	cm³/10min	ISO 1133
Molding Shrinkage - Flow	0.80	--	%	ISO 294-4
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	464000 (3200)	203000 (1400)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Yield)	8270 (57.0)	4790 (33.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	3.0	16	%	ISO 527-2/1A/50
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	2.4 (5.0)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	4.3 (9.0)	16 (33)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	> 38 (> 80)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	No Break	No Break		
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	11500 (79.0)	--	psi (MPa)	ISO 2039-1
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	230 (110)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	158 (70.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	410 (210)	--	°F (°C)	ISO 306/A50
--	284 (140)	--	°F (°C)	ISO 306/B50
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	> 1.0E+10	ohms·cm	IEC 60093

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Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 in (2.00 mm)	1.2 (31)	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	1.2 (31)	--	in/min (mm/min)	FMVSS 302
Flammability Classification				IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	--		
0.12 in (3.0 mm)	HB	--		

Additional Information

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

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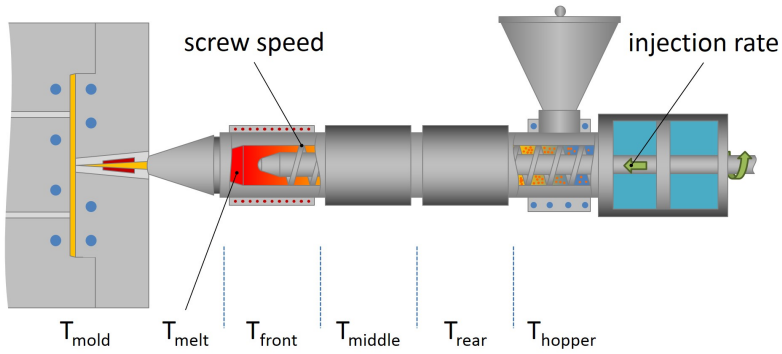

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	446 to 518 °F	230 to 270 °C
Mold Temperature	104 to 176 °F	40 to 80 °C

Notes

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