

Technical Data Sheet

SCHULABLEND® (ASA/PA) M/MW 6501 U

Acrylonitrile Styrene Acrylate + PA
Engineering Plastics

Product Description

ASA/PA blend with excellent light stability, impact properties and with high heat resistance. (Former name: SCHULABLEND® M/MW UV [K2358])

General

Processing Method • Extrusion • Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	4.00	--	cm ³ /10min	ISO 1133
Molding Shrinkage	0.80 to 1.2	--	%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	268000 (1850)	102000 (700)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Yield)	6240 (43.0)	4930 (34.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	3.0	58	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 100	180	%	ISO 527-2/1A/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	3.8 (8.0)	4.8 (10)	ft·lb/in ² (kJ/m ²)	
-4°F (-20°C)	7.1 (15)	7.1 (15)	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	43 (90)	59 (130)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	No Break	No Break		
-4°F (-20°C)	No Break	No Break		
73°F (23°C)	No Break	No Break		
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	13800 (95.0)	--	psi (MPa)	ISO 2039-1
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	133 (56.0)	--	°F (°C)	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	205 (96.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	406 (208)	--	°F (°C)	ISO 306/A50
--	259 (126)	--	°F (°C)	ISO 306/B50

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Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 1.0E+15	> 1.0E+12	ohms	IEC 62631-3-2
Volume Resistivity	> 1.0E+13	> 1.0E+10	ohms·m	IEC 62631-3-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 in (2.00 mm)	1.2 (30)	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	1.2 (30)	--	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.