

Technical Data Sheet

# SCHULABLEND<sup>®</sup> (PC/ABS) M/MB 6306

Polycarbonate + ABS  
Engineering Plastics

**Product Description**  
High heat resistant PC/ABS blend, available with and without UV stabilization.

General		
Features	• Good Flow	• High Heat Resistance
UL File Number	• E86615	
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• ABS+PC	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.14 g/cm <sup>3</sup>	1.14 g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	28 cm <sup>3</sup> /10min	28 cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage - Across Flow	0.40 to 0.60 %	0.40 to 0.60 %	ISO 294-4

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	319000 psi	2200 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	7980 psi	55.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	5.4 %	5.4 %	ISO 527-2/1A/50
Nominal Tensile Strain at Break	73 %	73 %	ISO 527-2

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	8.1 ft·lb/in <sup>2</sup>	17 kJ/m <sup>2</sup>	
73°F (23°C)	19 ft·lb/in <sup>2</sup>	40 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	No Break	No Break	
73°F (23°C)	No Break	No Break	
Notched Izod Impact Strength (73°F (23°C))	19 ft·lb/in <sup>2</sup>	39 kJ/m <sup>2</sup>	ISO 180/1A
Unnotched Izod Impact Strength (73°F (23°C))	No Break	No Break	ISO 180/1U

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	13100 psi	90.0 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	217 °F	103 °C	
Vicat Softening Temperature			
--	277 °F	136 °C	ISO 306/A50
--	262 °F	128 °C	ISO 306/B50
Ball Pressure Test (266°F (130°C))	Pass	Pass	IEC 60695-10-2

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1

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Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 mm/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.08 in (2.0 mm)	1200 °F	650 °C	

### Additional Information

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

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	212 °F	100 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	500 to 536 °F	260 to 280 °C
Mold Temperature	158 to 212 °F	70 to 100 °C

**Notes**

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