

Technical Data Sheet

**Schulablend (PC/ABS) M/MB 4301**

Polycarbonate + ABS
LyondellBasell Industries
Engineering Plastics

Product Description

ABS/PC blend with increased impact strength, heat resistance and good flow behaviour.
Also available as UV stabilized. (Former name: SCHULABLEND® M/MB 3)

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose		
Uses	• General Purpose		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.11 g/cm ³	1.11 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	16 g/10 min	16 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	334000 psi	2300 MPa	ISO 527-1
Tensile Stress (Yield)	7110 psi	49.0 MPa	ISO 527-2
Tensile Strain			
Yield	4.0 %	4.0 %	ISO 527-2/1
Break	> 50 %	> 50 %	ISO 527-2
Flexural Modulus	312000 psi	2150 MPa	ISO 178
Flexural Stress	10400 psi	72.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C)	8.6 ft·lb/in ²	18 kJ/m ²	
73°F (23°C)	19 ft·lb/in ²	40 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-22°F (-30°C)	No Break	No Break	
73°F (23°C)	No Break	No Break	
Notched Izod Impact (Area) (73°F (23°C))	26.2 ft·lb/in ²	55.0 kJ/m ²	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	11600 psi	80.0 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	221 °F	105 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	210 °F	99.0 °C	ISO 75-2/A
Vicat Softening Temperature			
--	239 °F	115 °C	ISO 306/B50
--	270 °F	132 °C	ISO 306/A
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
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
Flame Rating			UL 94
0.06 in (1.5 mm)	HB	HB	IEC 60695-11-10,
0.12 in (3.0 mm)	HB	HB	-20

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Additional Information

The tradename "Schulablend" may be abbreviated "SBL" in documents or on labels.

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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
Suggested Max Moisture	0.02 %	0.02 %
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.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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