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	
Features	• General Purpose
Uses	• General Purpose

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.11 g/cm³	1.11 g/cm³	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/in²	18 kJ/m²	
73°f (23°c)	19 ft·lb/in²	40 kJ/m²	
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/in²	55.0 kJ/m²	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 IEC 60695-11-10, -20
0.06 In (1.5 Mm)	HB	HB	
0.12 In (3.0 Mm)	HB	HB	

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Additional Information

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

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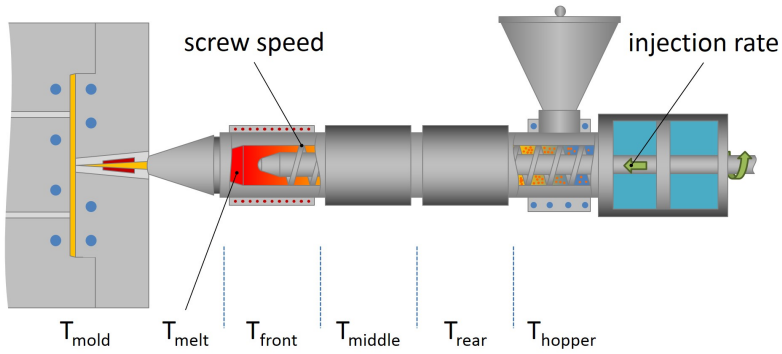

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	212 °F	100 °C
Drying Time	4.0 hr	4.0 hr
Suggested Max Moisture	0.02 %	0.02 %
Processing (Melt) Temp	500 to 536 °F	260 to 280 °C
Mold Temperature	158 to 212 °F	70 to 100 °C

Notes

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