

Schulablend (PC/ABS) M/MB 5 GF 10

Polycarbonate + ABS
LyondellBasell Industries
Engineering Plastics

Product Description

10% glass fibre reinforced ABS/PC blend

General

Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• ABS+PC-GF

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.19 g/cm ³	1.19 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/5.0 Kg)	16 cm ³ /10min	16 cm ³ /10min	ISO 1133
Water Absorption			ISO 62

Equilibrium, 73°F (23°C), 50% Rh	0.20 %	0.20 %	
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Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	522000 psi	3600 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	10700 psi	74.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0 %	3.0 %	ISO 527-2/1A/5

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-22°F (-30°C)	4.8 ft·lb/in ²	10 kJ/m ²	
73°F (23°C)	5.2 ft·lb/in ²	11 kJ/m ²	

Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	15 ft·lb/in ²	32 kJ/m ²	
73°F (23°C)	19 ft·lb/in ²	39 kJ/m ²	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	18000 psi	124 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	268 °F	131 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	246 °F	119 °C	ISO 75-2/Af
Vicat Softening Temperature	266 °F	130 °C	ISO 306/B50

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·cm	> 1.0E+13 ohms·cm	IEC 60093

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
--	< 1.6 in/min	< 40 mm/min	FMVSS 302
--	< 1.6 in/min	< 40 mm/min	ISO 3795

Additional Information

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

- 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 to 6.0 hr	4.0 to 6.0 hr
Suggested Max Moisture	< 0.05 %	< 0.05 %
Processing (Melt) Temp	500 to 518 °F	260 to 270 °C
Mold Temperature	158 to 194 °F	70 to 90 °C

Notes

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

