

Technical Data Sheet

Schulablend (PC/PBT) M/MX 5301 U

Polycarbonate + PBT
LyondellBasell Industries
Engineering Plastics

Product Description

PC-PBT blend with improved UV-resistance. (Former name: SCHULABLEND® M/MX 50 UV)

General

RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Extrusion • Injection Molding
Resin ID (ISO 1043)	• PC+PBT

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.21 g/cm³	1.21 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/5.0 Kg)	54 cm³/10min	54 cm³/10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	290000 psi	2000 MPa	ISO 527-1/1A/1
Tensile Stress			ISO 527-2/1A/50
Yield	7540 psi	52.0 MPa	
Break	5080 psi	35.0 MPa	
Tensile Strain (Yield)	4.5 %	4.5 %	ISO 527-2/1A/50
Nominal Tensile Strain at Break	11 %	11 %	ISO 527-2/1A/50

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	6.7 ft·lb/in²	14 kJ/m²	
73°F (23°C)	21 ft·lb/in²	45 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	No Break	No Break	
73°F (23°C)	No Break	No Break	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	185 °F	85.0 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	151 °F	66.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	225 °F	107 °C	ISO 306/B50
--	288 °F	142 °C	ISO 306/A50

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

Additional Information

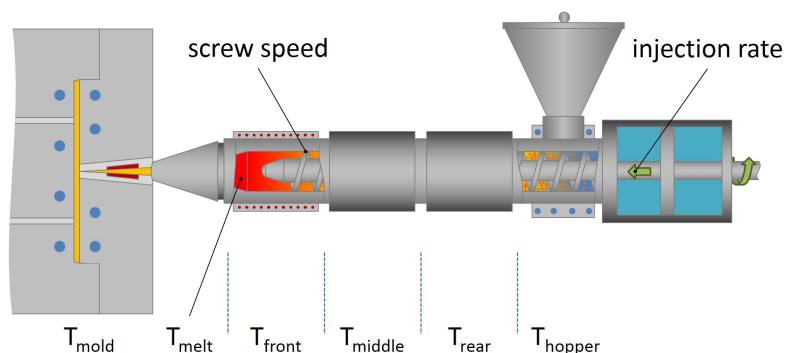
The tradename "Schulablend" may be abbreviated "SBL" in documents or on labels.

- 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	248 °F	120 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.02 %	0.02 %
Processing (Melt) Temp	482 to 500 °F	250 to 260 °C
Mold Temperature	158 to 212 °F	70 to 100 °C

Notes

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