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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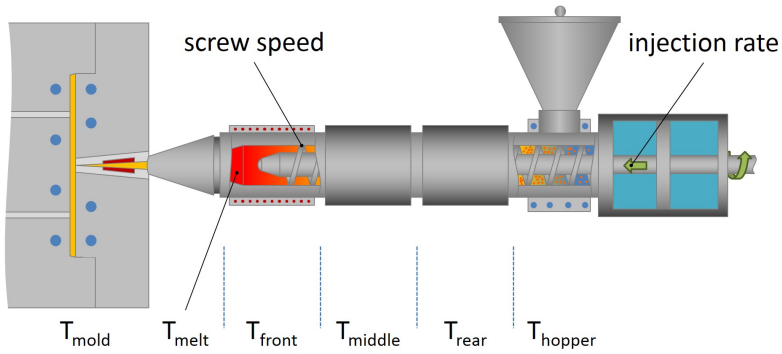

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	248 °F	120 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.02 %	0.02 %
Processing (Melt) Temp	482 to 500 °F	250 to 260 °C
Mold Temperature	158 to 212 °F	70 to 100 °C

Notes

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