

Technical Data Sheet



Schulablend (PET-G) M/MC 3501 SF

Copolyester
LyondellBasell Industries
Engineering Plastics

Product Description

Impact modified transparent Copolyester compound with high chemical resistance, high flow, high scratch resistance with High-Gloss Piano Black effect. Available with or without UV stabilization.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• Copolyester		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.18 g/cm ³	1.18 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (265°C/2.16 kg)	26 cm ³ /10min	26 cm ³ /10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	232000 psi	1600 MPa	ISO 527-1/1A/1
Tensile Stress			ISO 527-2/1A/50
Yield	6820 psi	47.0 MPa	
Break	6090 psi	42.0 MPa	
Tensile Strain (Yield)	6.0 %	6.0 %	ISO 527-2/1A/50
Nominal Tensile Strain at Break	130 %	130 %	ISO 527-2/1A/50
Flexural Modulus ¹	261000 psi	1800 MPa	ISO 178
Flexural Stress ¹			ISO 178
6.2% Strain	10400 psi	72.0 MPa	
3.5% Strain	8410 psi	58.0 MPa	
9.0% Strain ²	9430 psi	65.0 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	3.3 ft·lb/in ²	7.0 kJ/m ²	
73°F (23°C)	38 ft·lb/in ²	80 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	No Break	No Break	
73°F (23°C)	No Break	No Break	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	13200 psi	91.2 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	187 °F	86.0 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	176 °F	80.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	208 °F	98.0 °C	ISO 306/B50
--	219 °F	104 °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.) For food contact use please refer to food contact certificate
- 2.) Not for use in medical or pharmaceutical applications

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	167 to 176 °F	75 to 80 °C
Drying Time	4.0 hr	4.0 hr
Suggested Max Moisture	0.01 to 0.02 %	0.01 to 0.02 %
Processing (Melt) Temp	536 °F	280 °C
Mold Temperature	140 to 176 °F	60 to 80 °C

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Notes

¹ 0.079 in/min (2.0 mm/min)

² at Break

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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