

Schulablend (PET-G) M/MC 3401 SF

Copolyester
LyondellBasell Industries
Engineering Plastics

Product Description

Impact modified transparent Copolyester compound with high chemical resistance and high flow. Available with and without UV stabilization.

General

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	91.0 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
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

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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
Flammability Classification			IEC 60695-11-10, -20
0.06 In (1.5 Mm)	HB	HB	
0.12 In (3.0 Mm)	HB	HB	

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	194 °F	90 °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

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.