

Technical Data Sheet



Schulablend (PA/PPO) M/MH 8103 GF20

Polyamide + PPE
LyondellBasell Industries
Engineering Plastics

Product Description

Polyamid 66 - PPE Blend, 20% glass fiber reinforced, low thermal conductivity

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Processing Method	• Extrusion • Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.23 g/cm ³	1.23 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (280°C/10.0 kg)	40 cm ³ /10min	40 cm ³ /10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.15E+6 psi	7900 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	17500 psi	121 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.2 %	2.2 %	ISO 527-2/1A/5
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°F (-40°C)	3.8 ft·lb/in ²	8.0 kJ/m ²	
-22°F (-30°C)	4.3 ft·lb/in ²	9.0 kJ/m ²	
73°F (23°C)	4.3 ft·lb/in ²	9.0 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°F (-40°C)	14 ft·lb/in ²	30 kJ/m ²	
-22°F (-30°C)	14 ft·lb/in ²	30 kJ/m ²	
73°F (23°C)	17 ft·lb/in ²	35 kJ/m ²	
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, 0.0787 in (2.00 mm)	187 °F	86.0 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	412 °F	211 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	419 °F	215 °C	ISO 306/B50
--	> 482 °F	> 250 °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
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	

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Additional Information

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

Thermal conductivity ISO/CD 22007-2 0,29 W/(m*K)

- 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	230 to 248 °F	110 to 120 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	518 to 536 °F	270 to 280 °C
Mold Temperature	176 to 212 °F	80 to 100 °C

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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