

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 <sup>3</sup>	1.23 g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (280°C/10.0 Kg)	40 cm <sup>3</sup> /10min	40 cm <sup>3</sup> /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 <sup>2</sup>	8.0 kJ/m <sup>2</sup>	
-22°F (-30°C)	4.3 ft·lb/in <sup>2</sup>	9.0 kJ/m <sup>2</sup>	
73°F (23°C)	4.3 ft·lb/in <sup>2</sup>	9.0 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°F (-40°C)	14 ft·lb/in <sup>2</sup>	30 kJ/m <sup>2</sup>	
-22°F (-30°C)	14 ft·lb/in <sup>2</sup>	30 kJ/m <sup>2</sup>	
73°F (23°C)	17 ft·lb/in <sup>2</sup>	35 kJ/m <sup>2</sup>	

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.

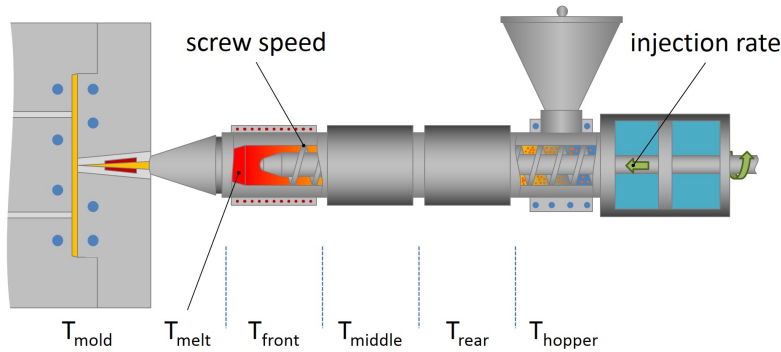
Thermal conductivity ISO/CD 22007-2 0,29 W/(m\*K)

- 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**

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