

Technical Data Sheet

SCHULABLEND® (PA/PPO) M/MH 8101 GF20

Polyamide + PPE
Engineering Plastics

Product Description

Polyamid 66 - PPE Blend, 20% glass fiber reinforced

General

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

Physical	Dry	Conditioned	Unit	Test Method
Density	1.22	--	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (280°C/10.0 kg)	10	--	cm³/10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.30	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.02E+6 (7000)	696000 (4800)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress				
Yield	12800 (88.0)	--	psi (MPa)	ISO 527-2/1A/50
Break	17100 (118)	17500 (121)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain				
Yield	3.9	--	%	ISO 527-2/1A/50
Break	2.9	4.9	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	4.0 (8.5)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	4.8 (10)	6.2 (13)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F (23°C)	29 (60)	29 (60)	ft·lb/in² (kJ/m²)	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	17800 (123)	--	psi (MPa)	ISO 2039-1

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Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed, 0.0787 in (2.00 mm)	475 (246)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	430 (221)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	> 482 (> 250)	--	°F (°C)	ISO 306/A50
--	426 (219)	--	°F (°C)	ISO 306/B50
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 1.0E+15	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	> 1.0E+10	ohms·m	IEC 62631-3-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 in (2.00 mm)	< 3.9 (< 100)	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	< 3.9 (< 100)	--	in/min (mm/min)	FMVSS 302
Flammability Classification				IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	--		
0.12 in (3.0 mm)	HB	--		

Additional Information

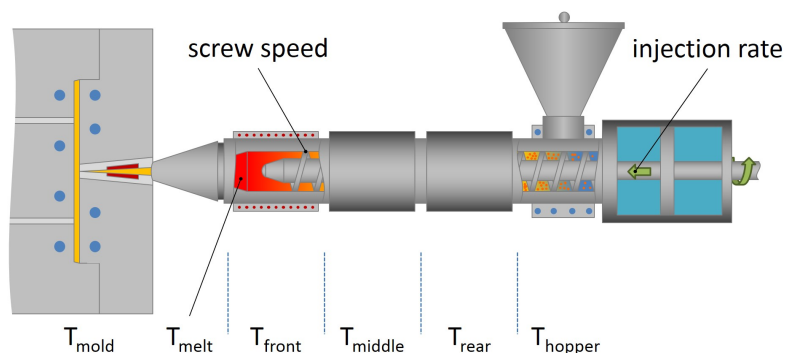
Thermal conductivity ISO/CD 22007-2 0,29 W/(m*K)

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

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Injection	Dry (English)	Dry (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
Suggested Max Regrind	20 %	20 %
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.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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