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		
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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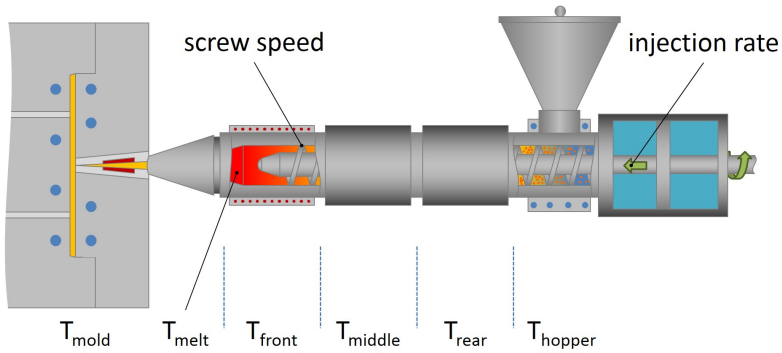

Injection	Dry (English)	Dry (SI)
Drying Temperature	230 to 248 °F	110 to 120 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	518 to 536 °F	270 to 280 °C
Mold Temperature	176 to 212 °F	80 to 100 °C

Notes

These are typical property values not to be construed as specification limits.