

SCHULABLEND® (PA/PP) M/MO 7101 GF25

Polyamide + PP
Engineering Plastics

Product Description

25% glass fibre reinforced PA6/PP blend with excellent chemical resistance. (Former name: SCHULABLEND® M/MO GF25)

General

Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight
Automotive Specifications	• GM GMW15702-020341 PA+PP-GF25 Color: 96.8001 Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA6+PP-GF

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.22 g/cm³	1.22 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR)			ISO 1133
250°C/2.16 kg	5.00 cm³/10min	5.00 cm³/10min	
250°C/5.0 kg	15 cm³/10min	15 cm³/10min	
Molding Shrinkage			ISO 294-4
Across Flow	1.1 %	1.1 %	
Flow	0.40 %	0.40 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.02E+6 psi	7060 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	14900 psi	103 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.1 %	2.1 %	ISO 527-2/1A/5

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	2.4 ft·lb/in²	5.0 kJ/m²	
73°F (23°C)	3.3 ft·lb/in²	7.0 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	15 ft·lb/in²	32 kJ/m²	
73°F (23°C)	20 ft·lb/in²	42 kJ/m²	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	15700 psi	108 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	363 °F	184 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	311 °F	155 °C	ISO 75-2/A
Vicat Softening Temperature			
--	417 °F	214 °C	ISO 306/A50
--	313 °F	156 °C	ISO 306/B50

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	

Technical Data Sheet

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	464 to 518 °F	240 to 270 °C
Mold Temperature	140 to 194 °F	60 to 90 °C

Notes

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