

SCHULABLEND® (PA/PP) M/MO 5101

Polyamide + PP
Engineering Plastics

Product Description

PA6/PP blend with excellent chemical resistance. (Former name: SCHULABLEND® M/MO)

General

Features	- Chemical Resistant - Good Flow
Processing Method	Injection Molding
Resin ID (ISO 1043)	PA6-PP

Physical	Dry	Conditioned	Unit	Test Method
Density	1.02	--	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	13	--	cm ³ /10min	ISO 1133
Molding Shrinkage	1.1 to 1.8	--	%	ISO 294-4

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	290000 (2000)	160000 (1100)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Yield)	6090 (42.0)	5510 (38.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain				
Yield	5.0	21	%	ISO 527-2/1A/50
Break	> 20	--	%	ISO 527-2/1A/5

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	2.9 (6.0)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	4.8 (10)	7.1 (15)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	No Break	--		
73°F (23°C)	No Break	No Break		

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	246 (119)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	131 (55.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	396 (202)	--	°F (°C)	ISO 306/A50
--	248 (120)	--	°F (°C)	ISO 306/B50



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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

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	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.

