

Technical Data Sheet

SCHULABLEND[®] (PA/PP) M/MO 5101 FC

Polyamide + PP
Engineering Plastics

Product Description

High chemical resistant PA/PP blend with good flow, approved for food contact [FC]. (Former name: SCHULABLEND[®] M/MO K1450)

General

Features	<ul style="list-style-type: none"> • Chemical Resistant • Food Contact Acceptable • Good Flow
Processing Method	<ul style="list-style-type: none"> • Injection Molding
Resin ID (ISO 1043)	<ul style="list-style-type: none"> • PA6-PP

Physical	Dry	Conditioned	Unit	Test Method
Density	1.01	--	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	11	--	cm ³ /10min	ISO 1133

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	261000 (1800)	160000 (1100)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Yield)	7250 (50.0)	5510 (38.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0	21	%	ISO 527-2/1A/50

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)	5.2 (11)	7.1 (15)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	23 (49)	--	ft·lb/in ² (kJ/m ²)	
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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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

Notes

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