

Technical Data Sheet



Schulablend (ABS/PA) M/MK 6501 LE SF U

Acrylonitrile Butadiene Styrene + PA

LyondellBasell Industries

Engineering Plastics

Product Description

High flow ABS/PA6 blend, high impact strength, UV stabilised with optimized Low emission performance for automotive interior applications. (Former name: SCHULABLEND® M/MK K2004 SF LE)

General

Material Status	• Commercial: Active	
Availability	• Europe	• North America
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• PA+ABS	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.08	--	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	10	--	cm ³ /10min	ISO 1133
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	261000 (1800)	131000 (900)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress				ISO 527-2/1A/50
Yield	5800 (40.0)	4350 (30.0)	psi (MPa)	
Break	5800 (40.0)	5510 (38.0)	psi (MPa)	
Tensile Strain				ISO 527-2/1A/50
Yield	3.4	21	%	
Break	120	200	%	
Flexural Modulus ¹	247000 (1700)	--	psi (MPa)	ISO 178
Flexural Stress ¹				ISO 178
6.0% Strain	7250 (50.0)	--	psi (MPa)	
3.5% Strain	7250 (50.0)	--	psi (MPa)	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	14 (30)	--	ft-lb/in ² (kJ/m ²)	
73°F (23°C)	43 (90)	42 (88)	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		

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Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 psi (0.45 MPa), Unannealed	194 (90.0)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	140 (60.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	266 (130)	--	°F (°C)	ISO 306/B50
--	392 (200)	--	°F (°C)	ISO 306/A50
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)	2.4 (60)	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	2.4 (60)	--	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

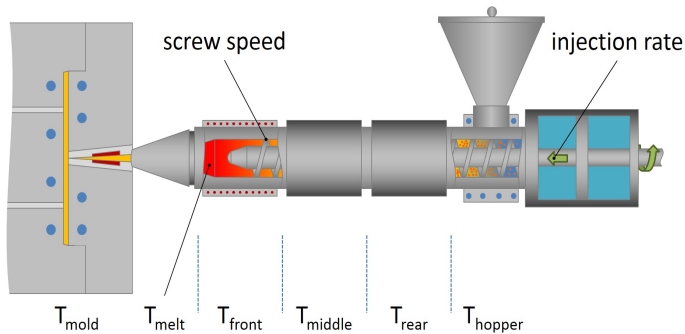
- The tradename "Schulablend" may be abbreviated "SBL" in documents or on labels.
- 1.) Not for use in food contact applications
 - 2.) Not for use in medical or pharmaceutical applications

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Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	446 to 518 °F	230 to 270 °C
Mold Temperature	104 to 176 °F	40 to 80 °C

Injection Notes

For applications that require a higher flow it might be useful to process the material without pre-drying. Material from opened bags should be dried. If material is transferred from cold inventory into warm production environment, it is necessary to apply a short 'warming phase' at 60 °C or store in the production area for >24h to avoid bedewing.

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Notes

¹ 0.079 in/min (2.0 mm/min)

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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

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

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