

Technical Data Sheet

**Schulablend (PC/ASA) M/MA 5301 U**

Polycarbonate + ASA
LyondellBasell Industries
Engineering Plastics

Product Description

Schulablend M/MA 5301U is an UV stabilized PC/ASA alloy. (Former name: Ronfalin D120)

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Impact Resistance	• Good Weather Resistance	• High Heat Resistance
UL File Number	• E51193-		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.17 g/cm ³	1.17 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	29 cm ³ /10min	29 cm ³ /10min	ISO 1133
Outdoor Suitability (All Colors)	f1	f1	UL 746C
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	358000 psi	2470 MPa	ISO 527-1/1
Tensile Stress (Yield)	7980 psi	55.0 MPa	ISO 527-2/50
Flexural Modulus	348000 psi	2400 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-40°F (-40°C)	6.7 ft·lb/in ²	14 kJ/m ²	
73°F (23°C)	23 ft·lb/in ²	48 kJ/m ²	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	109	109	ISO 2039-2
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	228 °F	109 °C	
Vicat Softening Temperature	246 °F	119 °C	ISO 306/B
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
Flame Rating	HB	HB	UL 94

Additional Information

The tradename "Schulablend" may be abbreviated "SBL" in documents or on labels.

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	212 °F	100 °C
Drying Time	4.0 hr	4.0 hr
Suggested Max Moisture	0.02 %	0.02 %
Processing (Melt) Temp	500 to 536 °F	260 to 280 °C
Mold Temperature	158 to 212 °F	70 to 100 °C

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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