

# 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

|                   |                          |                           |                        |
|-------------------|--------------------------|---------------------------|------------------------|
| 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 <sup>3</sup>    | 1.17 g/cm <sup>3</sup>    | ISO 1183/A  |
| Melt Volume-Flow Rate (MVR) (260°C/5.0 Kg) | 29 cm <sup>3</sup> /10min | 29 cm <sup>3</sup> /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 <sup>2</sup> | 14 kJ/m <sup>2</sup> |             |
| 73°F (23°C)                    | 23 ft·lb/in <sup>2</sup>  | 48 kJ/m <sup>2</sup> |             |

| 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       |

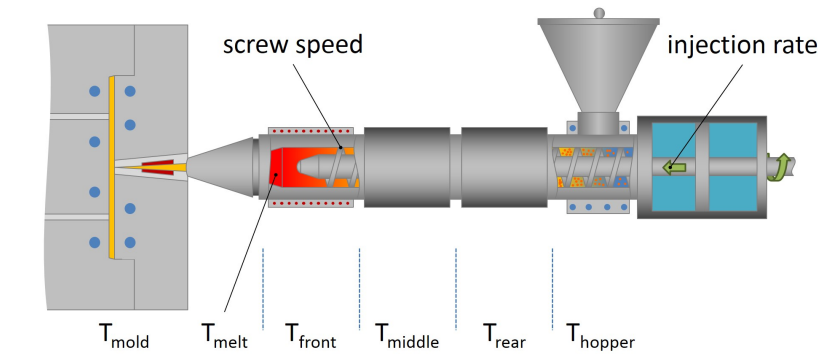
## Additional Information

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.

