

## Technical Data Sheet



# Schulablend (PET-G) M/MC 3401 SF

Copolyester  
LyondellBasell Industries  
Engineering Plastics

### Product Description

Impact modified transparent Copolyester compound with high chemical resistance and high flow. Available with and without UV stabilization.

### General

|                     |                                          |                             |                 |
|---------------------|------------------------------------------|-----------------------------|-----------------|
| Material Status     | • Commercial: Active                     |                             |                 |
| Availability        | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Processing Method   | • Injection Molding                      |                             |                 |
| Resin ID (ISO 1043) | • Copolyester                            |                             |                 |

| Physical                                    | Nominal Value (English)   | Nominal Value (SI)        | Test Method     |
|---------------------------------------------|---------------------------|---------------------------|-----------------|
| Density                                     | 1.18 g/cm <sup>3</sup>    | 1.18 g/cm <sup>3</sup>    | ISO 1183/A      |
| Melt Volume-Flow Rate (MVR) (265°C/2.16 kg) | 26 cm <sup>3</sup> /10min | 26 cm <sup>3</sup> /10min | ISO 1133        |
| Mechanical                                  | Nominal Value (English)   | Nominal Value (SI)        | Test Method     |
| Tensile Modulus                             | 232000 psi                | 1600 MPa                  | ISO 527-1/1A/1  |
| Tensile Stress                              |                           |                           | ISO 527-2/1A/50 |
| Yield                                       | 6820 psi                  | 47.0 MPa                  |                 |
| Break                                       | 6090 psi                  | 42.0 MPa                  |                 |
| Tensile Strain (Yield)                      | 6.0 %                     | 6.0 %                     | ISO 527-2/1A/50 |
| Nominal Tensile Strain at Break             | 130 %                     | 130 %                     | ISO 527-2/1A/50 |
| Flexural Modulus <sup>1</sup>               | 261000 psi                | 1800 MPa                  | ISO 178         |
| Flexural Stress <sup>1</sup>                |                           |                           | ISO 178         |
| 6.2% Strain                                 | 10400 psi                 | 72.0 MPa                  |                 |
| 3.5% Strain                                 | 8410 psi                  | 58.0 MPa                  |                 |
| 9.0% Strain <sup>2</sup>                    | 9430 psi                  | 65.0 MPa                  |                 |
| Impact                                      | Nominal Value (English)   | Nominal Value (SI)        | Test Method     |
| Charpy Notched Impact Strength              |                           |                           | ISO 179/1eA     |
| -22°F (-30°C)                               | 3.3 ft·lb/in <sup>2</sup> | 7.0 kJ/m <sup>2</sup>     |                 |
| 73°F (23°C)                                 | 38 ft·lb/in <sup>2</sup>  | 80 kJ/m <sup>2</sup>      |                 |
| Charpy Unnotched Impact Strength            |                           |                           | ISO 179/1eU     |
| -22°F (-30°C)                               | No Break                  | No Break                  |                 |
| 73°F (23°C)                                 | No Break                  | No Break                  |                 |
| Hardness                                    | Nominal Value (English)   | Nominal Value (SI)        | Test Method     |
| Ball Indentation Hardness (H 358/30)        | 13200 psi                 | 91.0 MPa                  | ISO 2039-1      |
| Thermal                                     | Nominal Value (English)   | Nominal Value (SI)        | Test Method     |
| Deflection Temperature Under Load           |                           |                           |                 |
| 66 psi (0.45 MPa), Unannealed               | 187 °F                    | 86.0 °C                   | ISO 75-2/Bf     |
| 264 psi (1.8 MPa), Unannealed               | 176 °F                    | 80.0 °C                   | ISO 75-2/ Af    |
| Vicat Softening Temperature                 |                           |                           |                 |
| --                                          | 208 °F                    | 98.0 °C                   | ISO 306/B50     |
| --                                          | 219 °F                    | 104 °C                    | ISO 306/A50     |
| Electrical                                  | Nominal Value (English)   | Nominal Value (SI)        | Test Method     |
| Surface Resistivity                         | > 1.0E+15 ohms            | > 1.0E+15 ohms            | IEC 60093       |
| Volume Resistivity                          | > 1.0E+13 ohms·m          | > 1.0E+13 ohms·m          | IEC 62631-3-1   |

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| 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            |
| Flammability Classification |                         |                    | IEC 60695-11-10, -20 |
| 0.06 in (1.5 mm)            | HB                      | HB                 |                      |
| 0.12 in (3.0 mm)            | HB                      | HB                 |                      |

**Additional Information**

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

- 1.) For food contact use please refer to food contact certificate
- 2.) Not for use in medical or pharmaceutical applications

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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 194 °F                  | 90 °C              |
| Drying Time            | 4.0 hr                  | 4.0 hr             |
| Suggested Max Moisture | 0.01 to 0.02 %          | 0.01 to 0.02 %     |
| Processing (Melt) Temp | 536 °F                  | 280 °C             |
| Mold Temperature       | 140 to 176 °F           | 60 to 80 °C        |

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**Notes**

<sup>1</sup> 0.079 in/min (2.0 mm/min)

<sup>2</sup> at Break

**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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