

Technical Data Sheet

Schulablend (PC/ABS) M/MB 5 GF 5

Polycarbonate + ABS
LyondellBasell Industries
Engineering Plastics

Product Description

5% glass fibre reinforced ABS/PC blend

General

| | |
|------------------------|--------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 5.0% Filler by Weight |
| Processing Method | • Injection Molding |
| Resin ID (ISO 1043) | • ABS+PC-GF |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|----------|-------------------------|--------------------|-------------|
|----------|-------------------------|--------------------|-------------|

| | | | |
|--|---------------------------|---------------------------|------------|
| Density | 1.16 g/cm ³ | 1.16 g/cm ³ | ISO 1183/A |
| Melt Volume-Flow Rate (MVR) (260°C/5.0 Kg) | 17 cm ³ /10min | 17 cm ³ /10min | ISO 1133 |

| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|------------|-------------------------|--------------------|-------------|
|------------|-------------------------|--------------------|-------------|

| | | | |
|------------------------|------------|----------|----------------|
| Tensile Modulus | 464000 psi | 3200 MPa | ISO 527-1/1A/1 |
| Tensile Stress (Break) | 9720 psi | 67.0 MPa | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 4.0 % | 4.0 % | ISO 527-2/1A/5 |

| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--------|-------------------------|--------------------|-------------|
|--------|-------------------------|--------------------|-------------|

| | | | |
|----------------------------------|---------------------------|----------------------|-------------|
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -22°F (-30°C) | 5.7 ft·lb/in ² | 12 kJ/m ² | |
| 73°F (23°C) | 7.1 ft·lb/in ² | 15 kJ/m ² | |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| -22°F (-30°C) | 17 ft·lb/in ² | 35 kJ/m ² | |
| 73°F (23°C) | 21 ft·lb/in ² | 45 kJ/m ² | |

| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---------|-------------------------|--------------------|-------------|
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| | | | |
|-----------------------------------|--------|--------|--------------|
| Deflection Temperature Under Load | | | |
| 66 Psi (0.45 Mpa), Unannealed | 266 °F | 130 °C | ISO 75-2/Bf |
| 264 Psi (1.8 Mpa), Unannealed | 239 °F | 115 °C | ISO 75-2/ Af |
| Vicat Softening Temperature | | | |
| -- | 262 °F | 128 °C | ISO 306/B50 |
| -- | 284 °F | 140 °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·cm | > 1.0E+13 ohms·cm | IEC 60093 |

| Flammability | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--------------|-------------------------|--------------------|-------------|
|--------------|-------------------------|--------------------|-------------|

| | | | |
|-----------------------------|--------------|-------------|----------------------|
| Burning Rate | | | |
| -- | < 1.6 in/min | < 40 mm/min | FMVSS 302 |
| -- | < 1.6 in/min | < 40 mm/min | ISO 3795 |
| Flammability Classification | | | IEC 60695-11-10, -20 |
| 0.06 In (1.6 Mm) | HB | 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

Notes

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