**Technical Data Sheet**

LyondellBasell

# *Schulamid* 66 GF 30 HR

Polyamide 66
LyondellBasell Industries
Engineering Plastics

| | | | |
|---|---|---|---|
| **Product Description** | | | |
| 30% glass fiber reinforced, hydrolysis resistant Polyamide 66 | | | |
| **General** | | | |
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight | | |
| Features | • Fuel Resistant<br>• Good Glycol Resistance | • Good Processability<br>• Medium Viscosity | • Oil Resistant |
| Automotive Specifications | • FORD WSK-M4D752-A | • FORD WSK-M4D752-A Color: Black | • FORD WSK-M4D752-A Color: 31 Black |
| Processing Method | • Injection Molding | | |

| **Physical** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
|---|---|---|---|
| Density | 1.40 g/cm³ | 1.40 g/cm³ | ISO 1183/A |
| Viscosity Number | 140 cm³/g | 140 cm³/g | ISO 307 |
| **Mechanical** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Tensile Modulus | 1.52E+6 psi | 10500 MPa | ISO 527-1/1A/1 |
| Tensile Stress (Break) | 26100 psi | 180 MPa | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 3.0 % | 3.0 % | 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) | 3.3 ft·lb/in² | 7.0 kJ/m² | |
| 73°F (23°C) | 4.3 ft·lb/in² | 9.0 kJ/m² | |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| -22°F (-30°C) | 26 ft·lb/in² | 55 kJ/m² | |
| 73°F (23°C) | 36 ft·lb/in² | 75 kJ/m² | |
| **Thermal** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Deflection Temperature Under Load | | | |
| 66 psi (0.45 MPa), Unannealed | > 482 °F | > 250 °C | ISO 75-2/Bf |
| 264 psi (1.8 MPa), Unannealed | 473 °F | 245 °C | ISO 75-2/Af |
| Vicat Softening Temperature | > 482 °F | > 250 °C | ISO 306/B50<br>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 |
| **Flammability** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Burning Rate | | | |
| 0.0787 in (2.00 mm) | 1.4 in/min | 35 mm/min | ISO 3795 |
| 0.0787 in (2.00 mm) | 1.4 in/min | 35 mm/min | FMVSS 302 |

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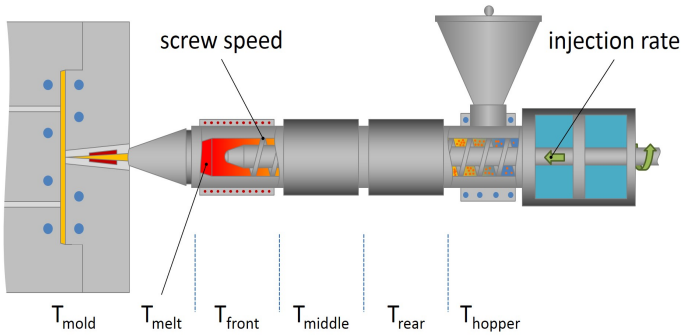


| Injection | Nominal Value (English) | Nominal Value (SI) |
|---|---|---|
| Drying Temperature | 176 °F | 80 °C |
| Drying Time | 3.0 to 4.0 hr | 3.0 to 4.0 hr |
| Suggested Max Moisture | 0.04 to 0.10 % | 0.04 to 0.10 % |
| Processing (Melt) Temp | 536 to 572 °F | 280 to 300 °C |
| Mold Temperature | 140 to 248 °F | 60 to 120 °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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