**Technical Data Sheet**

# SCHULAMID® 66 GF 30 GID

Polyamide 66
Engineering Plastics

| Product Description |
|---|
| 30% glass fiber reinforced Polyamide 66, optimized for GID-processes |

| General | | |
|---|---|---|
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight | |
| Features | • Balanced Stiffness/Toughness<br>• Good Processability | • Oil Resistant<br>• Outstanding Surface Finish |
| Processing Method | • Gas-Assisted Injection Molding | • Injection Molding |

| Physical | Dry | Conditioned | Unit | Test Method |
|---|---|---|---|---|
| Density | 1.36 | -- | g/cm³ | ISO 1183/A |
| Viscosity Number | 140 | -- | cm³/g | ISO 307 |
| **Mechanical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Tensile Modulus | 1.35E+6<br>(9300) | 783000<br>(5400) | psi<br>(MPa) | ISO 527-2/1A/1 |
| Tensile Stress (Break) | 25400<br>(175) | 16000<br>(110) | psi<br>(MPa) | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 3.5 | 8.0 | % | ISO 527-2/1A/5 |
| **Impact** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | | | | ISO 179/1eA |
| -22°F (-30°C) | 4.3<br>(9.0) | -- | ft·lb/in²<br>(kJ/m²) | |
| 73°F (23°C) | 5.2<br>(11) | 8.6<br>(18) | ft·lb/in²<br>(kJ/m²) | |
| Charpy Unnotched Impact Strength | | | | ISO 179/1eU |
| -22°F (-30°C) | 31<br>(65) | -- | ft·lb/in²<br>(kJ/m²) | |
| 73°F (23°C) | 38 ft·lb/in²<br>(80 kJ/m²) | No Break | (kJ/m²) | |
| **Thermal** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Heat Deflection Temperature | | | | |
| 66 psi (0.45 MPa), Unannealed | 475<br>(246) | -- | °F<br>(°C) | ISO 75-2/Bf |
| 264 psi (1.8 MPa), Unannealed | 428<br>(220) | -- | °F<br>(°C) | ISO 75-2/Af |
| Vicat Softening Temperature | | | | |
| -- | > 482<br>(> 250) | -- | °F<br>(°C) | ISO 306/A50 |
| -- | 459<br>(237) | -- | °F<br>(°C) | ISO 306/B50 |

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| Flammability | Dry | Conditioned | Unit | Test Method |
|---|---|---|---|---|
| Burning Rate | | | | |
| 0.0787 in (2.00 mm) | 1.2 (30) | -- | in/min (mm/min) | ISO 3795 |
| 0.0787 in (2.00 mm) | 1.2 (30) | -- | in/min (mm/min) | FMVSS 302 |
| Flammability Classification | | | | IEC 60695-11-10, -20 |
| 0.06 in (1.5 mm) | HB | -- | | |
| 0.12 in (3.0 mm) | HB | -- | | |

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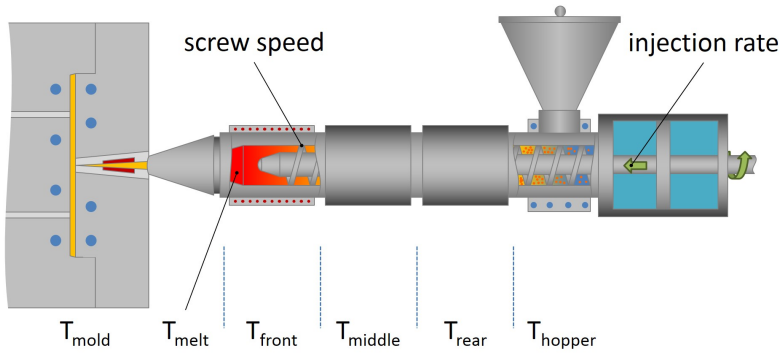


| Injection | Dry (English) | Dry (SI) |
|---|---|---|
| Drying Temperature | 176 °F | 80 °C |
| Drying Time | 3.0 to 4.0 hr | 3.0 to 4.0 hr |
| Suggested Max Moisture | 0.04 to 0.10 % | 0.04 to 0.10 % |
| Suggested Max Regrind | 20 % | 20 % |
| Processing (Melt) Temp | 536 to 572 °F | 280 to 300 °C |
| Mold Temperature | 140 to 248 °F | 60 to 120 °C |

**Notes**

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