**Technical Data Sheet**

# SCHULAMID® XT 200 GF 35 BLACK 96.8001

Polyamide 66
Engineering Plastics

| Product Description |
|---|
| 35% glass fiber reinforced Polyamide 66 for high temperature applications |

| General | |
|---|---|
| Filler / Reinforcement | • Glass Fiber, 35% Filler by Weight |
| Processing Method | • Injection Molding |

| Physical | Dry | Conditioned | Unit | Test Method |
|---|---|---|---|---|
| Density | 1.42 | 1.42 | g/cm³ | ISO 1183/A |
| **Mechanical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Tensile Modulus | 2.18E+6 (15000) | 1.16E+6 (8000) | psi (MPa) | ISO 527-2/1A/1 |
| Tensile Stress (Break) | 30500 (210) | 20300 (140) | psi (MPa) | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 3.0 | 7.8 | % | ISO 527-2/1A/5 |
| Flexural Modulus | 1.84E+6 (12700) | -- | psi (MPa) | ISO 178 |
| Flexural Stress [1] | | | | ISO 178 |
| 3.5% Strain | 50800 (350) | -- | psi (MPa) | |
| 3.6% Strain [2] | 50800 (350) | -- | psi (MPa) | |
| **Impact** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | | | | |
| -22°F (-30°C) | 4.8 (10) | -- | ft·lb/in² (kJ/m²) | ISO 179/1eC |
| 73°F (23°C) | 6.2 (13) | 8.6 (18) | ft·lb/in² (kJ/m²) | ISO 179/1eA |
| Charpy Unnotched Impact Strength | | | | ISO 179/1eU |
| -22°F (-30°C) | 33 (70) | -- | ft·lb/in² (kJ/m²) | |
| 73°F (23°C) | 43 ft·lb/in² (90 kJ/m²) | No Break | (kJ/m²) | |
| **Thermal** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Heat Deflection Temperature | | | | |
| 66 psi (0.45 MPa), Unannealed | 459 (237) | -- | °F (°C) | ISO 75-2/B |
| 264 psi (1.8 MPa), Unannealed | 414 (212) | -- | °F (°C) | ISO 75-2/A |
| **Flammability** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Burning Rate | | | | |
| 0.0787 in (2.00 mm) | < 3.9 (< 100) | -- | in/min (mm/min) | ISO 3795 |
| 0.0787 in (2.00 mm) | < 3.9 (< 100) | -- | in/min (mm/min) | FMVSS 302 |

| Additional Information |
|---|
| 1.) Not for use in food contact applications |
| 2.) Not for use in medical or pharmaceutical applications |

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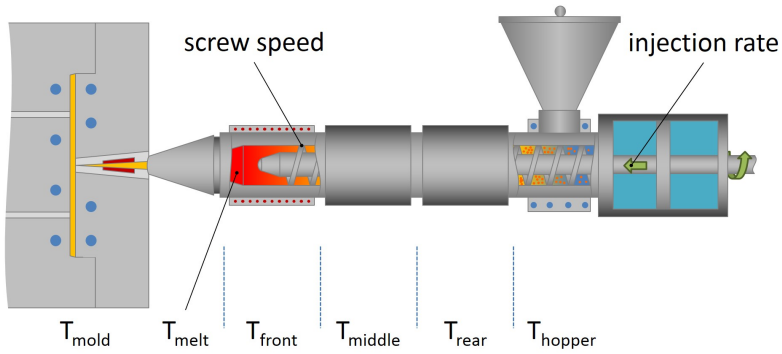


| Injection | Dry (English) | Dry (SI) |
|---|---|---|
| Drying Temperature | 176 °F | 80 °C |
| Drying Time | 3.0 to 4.0 hr | 3.0 to 4.0 hr |
| Suggested Max Moisture | 0.04 to 0.10 % | 0.04 to 0.10 % |
| Suggested Max Regrind | 10 % | 10 % |
| Processing (Melt) Temp | 518 to 554 °F | 270 to 290 °C |
| Mold Temperature | 176 to 248 °F | 80 to 120 °C |

**Notes**

[1] 0.079 in/min (2.0 mm/min)

[2] at Break

**Notes**

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