

Technical Data Sheet

SCHULAMID[®] B 6 MKF 4015

Polyamide 6
Engineering Plastics

Product Description

40% glassfiber and mineral reinforced polyamide 6 compound with high mechanical strength and dimensional stability

General

| | |
|------------------------|---------------------------------------|
| Filler / Reinforcement | • Glass\Mineral, 40% Filler by Weight |
| Processing Method | • Injection Molding |
| Resin ID (ISO 1043) | • PA6-GF-M |

| Physical | Dry | Conditioned | Unit | Test Method |
|----------|------|-------------|-------------------|-------------|
| Density | 1.44 | -- | g/cm ³ | ISO 1183/A |

| Mechanical | Dry | Conditioned | Unit | Test Method |
|------------------------|-------------------|------------------|--------------|----------------|
| Tensile Modulus | 1.13E+6 (7800) | 609000 (4200) | psi (MPa) | ISO 527-2/1A/1 |
| Tensile Stress (Break) | 17400 (120) | 9430 (65.0) | psi (MPa) | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 2.5 | 10 | % | ISO 527-2/1A/5 |

| Impact | Dry | Conditioned | Unit | Test Method |
|----------------------------------|--------------|--------------|---|-------------|
| Charpy Notched Impact Strength | | | | ISO 179/1eA |
| -22°F (-30°C) | 1.7 (3.6) | -- | ft·lb/in ² (kJ/m ²) | |
| 73°F (23°C) | 1.9 (4.0) | 3.3 (7.0) | ft·lb/in ² (kJ/m ²) | |
| Charpy Unnotched Impact Strength | | | | ISO 179/1eU |
| -22°F (-30°C) | 19 (40) | -- | ft·lb/in ² (kJ/m ²) | |
| 73°F (23°C) | 21 (45) | 29 (60) | ft·lb/in ² (kJ/m ²) | |

| Thermal | Dry | Conditioned | Unit | Test Method |
|-------------------------------|--------------|-------------|------------|-------------|
| Heat Deflection Temperature | | | | |
| 66 psi (0.45 MPa), Unannealed | 410 (210) | -- | °F (°C) | ISO 75-2/Bf |
| 264 psi (1.8 MPa), Unannealed | 378 (192) | -- | °F (°C) | ISO 75-2/Af |
| Vicat Softening Temperature | | | | |
| -- | 428 (220) | -- | °F (°C) | ISO 306/A50 |
| -- | 419 (215) | -- | °F (°C) | ISO 306/B50 |

| Flammability | Dry | Conditioned | Unit | Test Method |
|---------------------|-------------|-------------|--------------------|-------------|
| Burning Rate | | | | |
| 0.0787 in (2.00 mm) | 1.6 (40) | -- | in/min (mm/min) | ISO 3795 |
| 0.0787 in (2.00 mm) | 1.6 (40) | -- | in/min (mm/min) | FMVSS 302 |

Notes

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