

Technical Data Sheet

SCHULAMID® 6 MV14 H MI

Polyamide 6
Engineering Plastics

Product Description

Medium viscosity Polyamide 6, heat stabilized, DryBlend

General

Processing Method • Injection Molding

| Physical | Dry | Conditioned | Unit | Test Method |
|----------------------------------|------------------|------------------|---|-----------------|
| Density | 1.13 | -- | g/cm ³ | ISO 1183/A |
| Viscosity Number | | | | ISO 307 |
| 96% H2SO4 (Sulphuric Acid) | 145 | -- | cm ³ /g | |
| Mechanical | Dry | Conditioned | Unit | Test Method |
| Tensile Modulus | 464000 (3200) | 145000 (1000) | psi (MPa) | ISO 527-2/1A/1 |
| Tensile Stress (Yield) | 12300 (85.0) | 6530 (45.0) | psi (MPa) | ISO 527-2/1A/50 |
| Tensile Strain (Yield) | 5.0 | 20 | % | ISO 527-2/1A/50 |
| Nominal Tensile Strain at Break | 10 | > 100 | % | ISO 527-2/1A/50 |
| Flexural Modulus ¹ | 464000 (3200) | -- | psi (MPa) | ISO 178 |
| Flexural Stress ¹ | | | | ISO 178 |
| 5.8% Strain | 17400 (120) | -- | psi (MPa) | |
| 3.5% Strain | 15200 (105) | -- | psi (MPa) | |
| Impact | Dry | Conditioned | Unit | Test Method |
| Charpy Notched Impact Strength | | | | ISO 179/1eA |
| -22°F (-30°C) | 1.4 (3.0) | -- | ft·lb/in ² (kJ/m ²) | |
| 73°F (23°C) | 2.4 (5.0) | 14 (30) | ft·lb/in ² (kJ/m ²) | |
| Charpy Unnotched Impact Strength | | | | ISO 179/1eU |
| -22°F (-30°C) | No Break | -- | | |
| 73°F (23°C) | No Break | -- | | |
| Thermal | Dry | Conditioned | Unit | Test Method |
| Heat Deflection Temperature | | | | |
| 66 psi (0.45 MPa), Unannealed | 338 (170) | -- | °F (°C) | ISO 75-2/Bf |
| 264 psi (1.8 MPa), Unannealed | 149 (65.0) | -- | °F (°C) | ISO 75-2/Af |
| Vicat Softening Temperature | | | | |
| -- | 419 (215) | -- | °F (°C) | ISO 306/A50 |
| -- | 392 (200) | -- | °F (°C) | ISO 306/B50 |

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| 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 |

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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 | 482 to 518 °F | 250 to 270 °C |
| Mold Temperature | 140 to 194 °F | 60 to 90 °C |

Notes

¹ 0.079 in/min (2.0 mm/min)

Notes

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