

Technical Data Sheet

SCHULAMID® 6 GBF 3026 H BLACK 96.8069 LW

Polyamide 6
Engineering Plastics

Product Description

30% glass fibre and glass bead reinforced ,heat stabilized polyamide 6

General

- | | |
|------------------------|--|
| Filler / Reinforcement | • Glass Bead\Glass Fiber, 30% Filler by Weight |
| Processing Method | • Injection Molding |

| Physical | Dry | Conditioned | Unit | Test Method |
|----------|-----|-------------|------|-------------|
|----------|-----|-------------|------|-------------|

| | | | | |
|------------------|------|----|--------------------|------------|
| Density | 1.35 | -- | g/cm ³ | ISO 1183/A |
| Viscosity Number | 145 | -- | cm ³ /g | ISO 307 |

| Mechanical | Dry | Conditioned | Unit | Test Method |
|------------|-----|-------------|------|-------------|
|------------|-----|-------------|------|-------------|

| | | | | |
|------------------------|-------------------|------------------|--------------|----------------|
| Tensile Modulus | 1.25E+6 (8600) | 696000 (4800) | psi (MPa) | ISO 527-2/1A/1 |
| Tensile Stress (Break) | 21800 (150) | 13100 (90.0) | psi (MPa) | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 3.5 | 7.7 | % | ISO 527-2/1A/5 |

| Impact | Dry | Conditioned | Unit | Test Method |
|--------|-----|-------------|------|-------------|
|--------|-----|-------------|------|-------------|

| | | | | |
|----------------------------------|--------------|------------|---|-------------|
| Charpy Notched Impact Strength | | | | ISO 179/1eA |
| -22°F (-30°C) | 3.3 (7.0) | -- | ft·lb/in ² (kJ/m ²) | |
| 73°F (23°C) | 4.8 (10) | 11 (23) | ft·lb/in ² (kJ/m ²) | |
| Charpy Unnotched Impact Strength | | | | ISO 179/1eU |
| -22°F (-30°C) | 29 (61) | -- | ft·lb/in ² (kJ/m ²) | |
| 73°F (23°C) | 38 (80) | 45 (95) | ft·lb/in ² (kJ/m ²) | |

| Thermal | Dry | Conditioned | Unit | Test Method |
|---------|-----|-------------|------|-------------|
|---------|-----|-------------|------|-------------|

| | | | | |
|-------------------------------|--------------|----|------------|-------------|
| Heat Deflection Temperature | | | | |
| 66 psi (0.45 MPa), Unannealed | 419 (215) | -- | °F (°C) | ISO 75-2/Bf |
| 264 psi (1.8 MPa), Unannealed | 392 (200) | -- | °F (°C) | ISO 75-2/Af |
| Vicat Softening Temperature | | | | |
| -- | 419 (215) | -- | °F (°C) | ISO 306/A50 |
| -- | 410 (210) | -- | °F (°C) | ISO 306/B50 |

| Electrical | Dry | Conditioned | Unit | Test Method |
|------------|-----|-------------|------|-------------|
|------------|-----|-------------|------|-------------|

| | | | | |
|----------------------------|-----------|----|--------|---------------|
| Surface Resistivity | > 1.0E+15 | -- | ohms | IEC 60093 |
| Volume Resistivity | > 1.0E+13 | -- | ohms·m | IEC 62631-3-1 |
| Comparative Tracking Index | 450 | -- | V | IEC 60112 |

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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 |
| Flammability Classification | | | | IEC 60695-11-10, -20 |
| 0.06 in (1.5 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 | 482 to 536 °F | 250 to 280 °C |
| Mold Temperature | 140 to 212 °F | 60 to 100 °C |

Notes

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