

Technical Data Sheet

Schulamid RD 6 GBF 3025

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description
30% reinforced compound based on Polyamide 6, reduced density

| General | |
|------------------------|--------------------------|
| Filler / Reinforcement | • Glass Bead\Glass Fiber |
| Features | • Low Density |
| Processing Method | • Injection Molding |
| Resin ID (ISO 1043) | • PA6-I-GF |

| Physical | Dry | Conditioned | Unit | Test Method |
|------------------|------|-------------|--------------------|-------------|
| Density | 1.24 | -- | g/cm ³ | ISO 1183/A |
| Viscosity Number | 128 | -- | cm ³ /g | ISO 307 |

| Mechanical | Dry | Conditioned | Unit | Test Method |
|------------------------|-------------------|------------------|--------------|----------------|
| Tensile Modulus | 1.23E+6 (8500) | 798000 (5500) | psi (MPa) | ISO 527-1/1A/1 |
| Tensile Stress (Break) | 23600 (163) | 13500 (93.0) | psi (MPa) | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 2.8 | 5.6 | % | ISO 527-2/1A/5 |
| Flexural Modulus | 1.17E+6 (8080) | -- | psi (MPa) | ISO 178 |
| Flexural Stress | 32300 (223) | -- | psi (MPa) | ISO 178 |

| Impact | Dry | Conditioned | Unit | Test Method |
|----------------------------------|--------------|-------------|---|-------------|
| Charpy Notched Impact Strength | | | | ISO 179/1eA |
| -22°F (-30°C) | 2.8 (5.8) | -- | ft-lb/in ² (kJ/m ²) | |
| 73°F (23°C) | 3.3 (7.0) | 5.2 (11) | ft-lb/in ² (kJ/m ²) | |
| Charpy Unnotched Impact Strength | | | | ISO 179/1eU |
| -22°F (-30°C) | 21 (45) | -- | ft-lb/in ² (kJ/m ²) | |
| 73°F (23°C) | 25 (52) | 30 (62) | ft-lb/in ² (kJ/m ²) | |

| Thermal | Dry | Conditioned | Unit | Test Method |
|-----------------------------------|--------------|-------------|------------|-------------|
| Deflection Temperature Under Load | | | | ISO 75-2/Af |
| 264 Psi (1.8 Mpa), Unannealed | 414 (212) | -- | °F (°C) | |

| Flammability | Dry | Conditioned | Unit | Test Method |
|-----------------------------|------------------|-------------|--------------------|-------------------------|
| Burning Rate | | | | |
| 0.0787 In (2.00 Mm) | < 3.9 | -- | in/min | ISO 3795 |
| | (< 100) | | (mm/min) | |
| 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 | -- | | |
| 0.12 In (3.0 Mm) | HB | -- | | |

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Additional Information

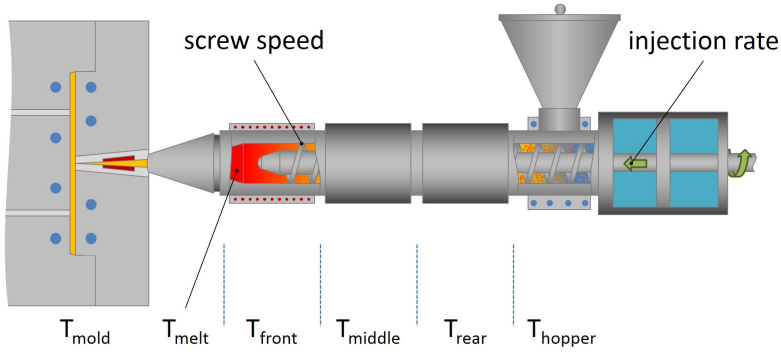
- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

Simulation data (also for Crash simulation) is available on special request

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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 % |
| 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.