**Technical Data Sheet**

# *Schulamid* 66 GF 15 HI K2034

Polyamide 66
LyondellBasell Industries
Engineering Plastics

| Product Description |
|---|
| 15% glass fiber reinforced, impact modified polyamide 66 compound |

| General | |
|---|---|
| Filler / Reinforcement | • Glass Fiber, 15% Filler by Weight |
| Features | • Impact Modified |
| Processing Method | • Injection Molding |
| Resin ID (ISO 1043) | • PA66I-GF |

| Physical | Dry | Conditioned | Unit | Test Method |
|---|---|---|---|---|
| Density | 1.21 | -- | g/cm³ | ISO 1183/A |
| **Mechanical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Tensile Modulus | 783000 (5400) | 435000 (3000) | psi (MPa) | ISO 527-1/1A/1 |
| Tensile Stress (Break) | 14500 (100) | 8700 (60.0) | psi (MPa) | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 4.0 | 18 | % | ISO 527-2/1A/5 |
| **Impact** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | | | | |
| -22°f (-30°c) | 1.7 (3.5) | -- | ft·lb/in² (kJ/m²) | ISO 179 |
| 73°f (23°c) | 5.7 (12) | 11 (24) | ft·lb/in² (kJ/m²) | ISO 179/1eA |
| Charpy Unnotched Impact Strength | | | | |
| -22°f (-30°c) | 19 (40) | -- | ft·lb/in² (kJ/m²) | ISO 179 |
| 73°f (23°c) | 29 ft·lb/in² (60 kJ/m²) | No Break | (kJ/m²) | ISO 179/1eU |
| **Thermal** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Deflection Temperature Under Load | | | | |
| 66 Psi (0.45 Mpa), Unannealed | 464 (240) | -- | °F (°C) | ISO 75-2/B |
| 264 Psi (1.8 Mpa), Unannealed | 419 (215) | -- | °F (°C) | ISO 75-2/A |
| Vicat Softening Temperature | | | | |
| -- | 437 (225) | -- | °F (°C) | ISO 306/B50 |
| -- | > 482 (> 250) | -- | °F (°C) | ISO 306/A50 |
| **Electrical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Surface Resistivity | > 1.0E+15 | > 1.0E+12 | ohms | IEC 60093 |
| Volume Resistivity | > 1.0E+13 | > 1.0E+10 | ohms·m | IEC 62631-3-1 |

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| Flammability | Dry | Conditioned | Unit | Test Method |
|---|---|---|---|---|
| Burning Rate | | | | |
| 0.0787 In (2.00 Mm) | 1.2 (30) | -- | in/min (mm/min) | ISO 3795 |
| 0.0787 In (2.00 Mm) | 1.2 (30) | -- | 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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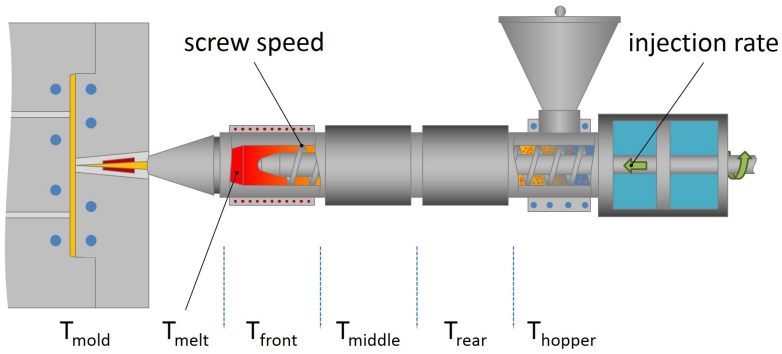


| Injection | Dry (English) | Dry (SI) |
|---|---|---|
| Drying Temperature | 176 °F | 80 °C |
| Drying Time | 3.0 to 4.0 hr | 3.0 to 4.0 hr |
| Suggested Max Moisture | 0.04 to 0.10 % | 0.04 to 0.10 % |
| Processing (Melt) Temp | 536 to 572 °F | 280 to 300 °C |
| Mold Temperature | 140 to 248 °F | 60 to 120 °C |

**Notes**

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