

Amodel® A-1130 FW polyphthalamide

Amodel® A-1130 FW is a 30% glass-fiber reinforced polyphthalamide (PPA) grade containing a solid lubricant. This resin was designed for moderate-

pressure, low-velocity friction and wear applications.

- Black: A-1130 FW BK 324

General

| | | |
|---------------------------|---|---|
| Material Status | • Commercial: Active | |
| Availability | • Africa & Middle East • Asia Pacific • Europe | • Latin America • North America |
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight | |
| Additive | • PTFE Lubricant | |
| Features | • Chemical Resistant • Creep Resistant • Good Dimensional Stability • Good Stiffness | • High Strength • Low Friction • Wear Resistant |
| Uses | • Bearings • Bushings | • Filters • Gears |
| RoHS Compliance | • RoHS Compliant | |
| Automotive Specifications | • ASTM D6779 PA1270G30 | • ISO 1874-PA6T/6I/66, MH, 11-110, GF30 |
| Appearance | • Black | |
| Forms | • Pellets | |
| Processing Method | • Injection Molding | |

| Physical | Typical Value | Unit | Test method |
|----------|---------------|-------------------|-------------|
| Density | 1.55 | g/cm ³ | ISO 1183/A |

| Mechanical | Typical Value | Unit | Test method |
|------------------------|---------------|------|-------------|
| Tensile Modulus | 11200 | MPa | ISO 527-1 |
| Tensile Stress (Break) | 187 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 2.0 | % | ISO 527-2 |
| Flexural Modulus | 9580 | MPa | ISO 178 |
| Flexural Stress | 252 | MPa | ISO 178 |

| Thermal | Typical Value | Unit | Test method |
|--|---------------|------|-------------|
| Deflection Temperature Under Load 1.8 MPa, Unannealed | 285 | °C | ISO 75-2/A |
| Melting Temperature | 313 | °C | ISO 11357-3 |

Amodel® A-1130 FW

polyphthalamide

| Injection | Typical Value | Unit |
|------------------------|----------------|------|
| Drying Temperature | 110 | °C |
| Drying Time | 4.0 | hr |
| Suggested Max Moisture | 0.030 to 0.060 | % |
| Rear Temperature | 304 to 318 | °C |
| Front Temperature | 316 to 329 | °C |
| Processing (Melt) Temp | 329 to 343 | °C |
| Mold Temperature | 135 | °C |

Injection Notes

Storage:

- Amodel® PPA compounds are shipped in moisture-resistant packages at moisture levels according to specifications. Sealed, undamaged bags should be preferably stored in a dry room at a maximum temperature of 50°C (122°F) and should be protected from possible damage. If only a portion of a package is used, the remaining material should be transferred into a sealable container. It is recommended that Amodel® PPA resins be dried prior to molding following the recommendations found in this datasheet and/or in the Amodel® PPA processing guide.

Notes

Typical properties: these are not to be construed as specifications.

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