

Amodel® A-1130 FW

Polyphthalamide
Solvay Specialty Polymers

Message:

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 Information | | | |
|---|---|-------------------|-------------|
| Filler / Reinforcement | Glass fiber reinforced material, 30% filler by weight | | |
| Additive | PTFE lubricant | | |
| Features | Good dimensional stability | | |
| | Low friction coefficient | | |
| | Rigid, good | | |
| | High strength | | |
| | Good creep resistance | | |
| | Good chemical resistance | | |
| | Good wear resistance | | |
| Uses | Bushing | | |
| | Gear | | |
| | Filter | | |
| | Bearing | | |
| RoHS Compliance | RoHS compliance | | |
| Appearance | Black | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.55 | g/cm ³ | ISO 1183/A |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 11200 | MPa | ISO 527-2 |
| 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 | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 285 | °C | ISO 75-2/A |
| Melting Temperature | 313 | °C | ISO 11357-3 |
| Injection | Nominal Value | Unit | |

| | | |
|------------------------|-----------|----|
| Drying Temperature | 110 | °C |
| Drying Time | 4.0 | hr |
| Suggested Max Moisture | 0.045 | % |
| Rear Temperature | 304 - 318 | °C |
| Front Temperature | 316 - 329 | °C |
| Processing (Melt) Temp | 329 - 343 | °C |
| Mold Temperature | 135 | °C |

Injection instructions

Storage:

Amodel® 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® resins be dried prior to molding following the recommendations found in this datasheet and/or in the Amodel® processing guide.

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Recommended distributors for this material

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