

# 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	• Good Chemical Resistance • Good Creep Resistance • Good Dimensional Stability	• Good Stiffness • Good Wear Resistance • High Strength	• Low Friction
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 <sup>3</sup>	ISO 1183/A

Mechanical	Typical 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	Typical 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	Typical Value	Unit
Drying Temperature	110	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.045	%
Rear Temperature	304 to 318	°C

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Injection	Typical Value	Unit
Front Temperature	316 to 329	°C
Processing (Melt) Temp	329 to 343	°C
Mold Temperature	135	°C

## Injection Notes

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.

## Notes

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

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