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/cm³	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			ISO 75-2/A
1.8 MPa, Unannealed	285	°C	
Melting Temperature	313	°C	ISO 11357-3

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

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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® 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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