

Solvay Specialty Polymers Amodel® A-1130 FW Polyphthalamide (PPA) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 30% Glass Fiber Reinforced

Material Notes:

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
Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-A-1130-FW-Polyphthalamide-PPA-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ISO 1183/A
Filler Content	30 %	30 %	Glass Fiber Reinforcement

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	187 MPa	27100 psi	ISO 527-2
Elongation at Break	2.0 %	2.0 %	ISO 527-2
Tensile Modulus	11.2 GPa	1620 ksi	ISO 527-2
Flexural Strength	252 MPa	36500 psi	ISO 178
Flexural Modulus	9.58 GPa	1390 ksi	ISO 178

Thermal Properties	Metric	English	Comments
Melting Point	313 °C	595 °F	ISO 11357-3
Deflection Temperature at 1.8 MPa (264 psi)	285 °C	545 °F	Unannealed; ISO 75-2/A

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	304 - 318 °C	579 - 604 °F	
Front Barrel Temperature	316 - 329 °C	601 - 624 °F	
Melt Temperature	329 - 343 °C	624 - 649 °F	
Mold Temperature	135 °C	275 °F	
Drying Temperature	110 °C	230 °F	
Dry Time	4.00 hour	4.00 hour	

Moisture Content	0.045 %	0.045 %	
Processing Properties	Metric	English	Comments

Descriptive Properties	Value	Comments
Additive	PTFE Lubricant	
Appearance	Black	
Automotive Specifications	ASTM D6779 PA1270G30	
	ISO 1874-PA6T/6I/66, MH, 11-110, GF30	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Good Chemical Resistance	
	Good Creep Resistance	
	Good Dimensional Stability	
	Good Stiffness	
	Good Wear Resistance	
	High Strength	
	Low Friction	
Forms	Pellets	
Generic	PPA	
Processing Method	Injection Molding	
RoHS Compliance	RoHS Compliant	
Uses	Bearings	
	Bushings	
	Filters	
	Gears	

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