

## Solvay Specialty Polymers Amodel® AT-6130 HS Polyphthalamide (PPA) (Unverified Data\*\*)

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

### Material Notes:

Amodel AT-6130 HS is a 30% glass-reinforced, toughened polyphthalamide (PPA) resin that has more elongation than other 30% glass-reinforced grades of Amodel resin. This grade was developed for automotive snap-fit electronic connectors. It offers high flow and short molding cycles. The processing window is relatively broad and mold temperatures as low as 150°F (65°C) can be used. - Black: AT-6130 HS BK 324 - Natural: AT-6130 HS NT  
Injection Notes: Injection pressure between 2-4 in/sec (5-10 cm/sec). Adjust the holding pressure to one-half the injection pressure. Data is presented for dry polymer unless noted as 'conditioned'. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Amodel-AT-6130-HS-Polyphthalamide-PPA-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AT-6130-HS-Polyphthalamide-PPA-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in <sup>3</sup>	ISO 1183/A
Filler Content	30 %	30 %	Glass Fiber Reinforcement
Water Absorption	0.15 % @Time 86400 sec	0.15 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	167 MPa	24200 psi	ASTM D638
	170 MPa	24700 psi	ISO 527-2
Elongation at Break	3.2 %	3.2 %	ASTM D638
	3.3 %	3.3 %	ISO 527-2
Tensile Modulus	9.31 GPa	1350 ksi	ISO 527-2
Flexural Strength	225 MPa	32600 psi	ISO 178
Flexural Yield Strength	236 MPa	34200 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ISO 178
	7.86 GPa	1140 ksi	ASTM D790
Izod Impact, Notched	1.30 J/cm	2.44 ft-lb/in	ASTM D256

Mechanical Properties	14.0 J/cm Metric	26.2 ft-lb/in English	ASTM D256 Comments
Charpy Impact, Notched	1.30 J/cm²	6.19 ft-lb/in²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	306 °C	583 °F	Peak; ASTM D3418
	310 °C	590 °F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	298 °C	568 °F	Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	276 °C	529 °F	Unannealed; ISO 75-2/A

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	316 - 324 °C	601 - 615 °F	
Front Barrel Temperature	327 - 332 °C	621 - 630 °F	
Melt Temperature	321 - 335 °C	610 - 635 °F	
Mold Temperature	65.6 - 93.3 °C	150 - 200 °F	
Drying Temperature	121 °C	250 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	0.15 %	0.15 %	

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
	Impact Modifier	
	Lubricant	
	Mold Release	
Appearance	Black	
	Natural Color	
Automotive Specifications	ASTM D4000 PPA0123 G30 KD150 KN080 PM095 PN095 YI255 LD002 Color: BK-324, NT Black & Natural	
	ASTM D6779 PA103G30	
	DELPHI MS 5218 Color: BK-324, NT Black and Natural	
	GM GMP.PPA.017 Color: BK-324, NT Black & Natural	

Descriptive Properties	Value	Comments
	LCP374-PA 6T/66-HI, MH, 11-090, GF30	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Good Chemical Resistance	
	Good Flow	
	Good Wear Resistance	
	Heat Stabilized	
	High Heat Resistance	
	High Strength	
	Hot Water Moldability	
	Impact Modified	
	Low Friction	
	Lubricated	
Forms	Pellets	
Generic	PPA	
Injection Rate	Fast	
Processing Method	Water-Heated Mold Injection Molding	
RoHS Compliance	RoHS Compliant	
Uses	Automotive Applications	
	Automotive Electronics	
	Automotive Under the Hood	
	Bearings	
	Connectors	
	Fuel Lines	

Descriptive Properties	General Purpose Value	Comments
	Housings	
	Industrial Applications	
	Industrial Parts	
	Lawn and Garden Equipment	
	Machine/Mechanical Parts	
	Metal Replacement	
	Valves/Valve Parts	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China