

## Solvay Specialty Polymers Amodel® DW-1140 Polyphthalamide (PPA), 40% Glass Fiber

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 40% Glass Fiber Reinforced

### Material Notes:

Amodel® DW-1140 is a 40% glass-fiber-reinforced resin designed for high strength and stiffness and improved hydrolytic stability. This material has low moisture absorption and a low coefficient of thermal expansion, which means excellent dimensional stability. Creep resistance is also exceptional. Features: Chlorine Resistant; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; High Stiffness; High Strength; High Temperature Strength; Low Moisture Absorption Uses: Appliances; Consumer Applications; Filters; Housings; Industrial Applications; Plumbing Parts; Pump Parts; Valves/Valve Parts Injection Molding Notes: 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. Additional Properties: Flexural Strain at Break - ISO 178 (23°C): 2.5 % Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Amodel-DW-1140-Polyphthalamide-PPA-40-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-DW-1140-Polyphthalamide-PPA-40-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in <sup>3</sup>	ISO 1183
Filler Content	40 %	40 %	Glass Fiber

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	240 MPa	34800 psi	ISO 527-2
Elongation at Break	2.2 %	2.2 %	ISO 527-2
Tensile Modulus	15.3 GPa	2220 ksi	ISO 527-2
Flexural Strength	330 MPa	47900 psi	ASTM D790
Flexural Modulus	14.0 GPa	2030 ksi	ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	ISO 180
Charpy Impact Unnotched	6.30 J/cm <sup>2</sup>	30.0 ft-lb/in <sup>2</sup>	ISO 179
Charpy Impact, Notched	0.930 J/cm <sup>2</sup>	4.43 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	300 °C	572 °F	Unannealed; Flatwise; ISO 75-2/A

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Middle Barrel Temperature	320 - 340 Â°C	608 - 644 Â°F	
Front Barrel Temperature	325 - 345 Â°C	617 - 653 Â°F	
Melt Temperature	340 - 360 Â°C	644 - 680 Â°F	
Mold Temperature	160 Â°C	320 Â°F	
Drying Temperature	120 Â°C @Time 14400 sec	248 Â°F @Time 4.00 hour	
Moisture Content	0.030 - 0.060 %	0.030 - 0.060 %	Suggested Max

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black; Natural	
Form	Pellets	
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	

## Contact Songhan Plastic Technology Co.,Ltd.

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