

Solvay Specialty Polymers Amodel® DW-1140 Polyphthalamide (PPA) (Unverified Data**)

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. - Natural: DW-1140 NT
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-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ISO 1183/A
Filler Content	40 %	40 %	Glass Fiber Reinforcement

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	253 MPa @Temperature 23.0 °C	36700 psi @Temperature 73.4 °F	ISO 527-2
Elongation at Break	2.1 % @Temperature 23.0 °C	2.1 % @Temperature 73.4 °F	ISO 527-2
Tensile Modulus	15.5 GPa	2250 ksi	ISO 527-2
Flexural Strength	370 MPa	53700 psi	ISO 178
Flexural Modulus	13.9 GPa @Temperature 23.0 °C	2020 ksi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	82.0 kJ/m ²	39.0 ft-lb/in ²	ISO 180
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	297 °C	567 °F	Unannealed; ISO 75-2/ Af

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	316 - 329 °C	601 - 624 °F	
Middle Barrel Temperature	316 - 329 °C	601 - 624 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	321 - 343 °C	610 - 649 °F	
Mold Temperature	150 °C	302 °F	
Drying Temperature	120 °C	248 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	0.030 - 0.060 %	0.030 - 0.060 %	

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Chlorine Resistant	
	Good Chemical Resistance	
	Good Creep Resistance	
	Good Dimensional Stability	
	Good Stiffness	
	High Stiffness	
	High Strength	
	High Temperature Strength	
	Low Moisture Absorption	
Forms	Pellets	
Generic	PPA	
Processing Method	Injection Molding	
RoHS Compliance	RoHS Compliant	
Uses	Appliances	

Descriptive Properties	Consumer Applications Value	Comments
	Filters	
	Housings	
	Industrial Applications	
	Plumbing Parts	
	Pump Parts	
	Valves/Valve Parts	

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