

Solvay Specialty Polymers Amodel® A-1145 DW Polyphthalamide (PPA) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 50% Glass Fiber Reinforced

Material Notes:

Amodel A-1145 DW is a 45% 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. This grade has been approved for use with potable water in the United States, France, Germany, and the United Kingdom. - Natural: A-1145 NT DW - Black: A-1145 BK 937 DW Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-A-1145-DW-Polyphthalamide-PPA-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	ISO 1183/A
Filler Content	45 %	45 %	Glass Fiber Reinforcement

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	232 MPa	33600 psi	ISO 527-2
Elongation at Break	1.8 % @Temperature 23.0 °C	1.8 % @Temperature 73.4 °F	ISO 527-2
Tensile Modulus	15.1 GPa	2190 ksi	ISO 527-2
Flexural Strength	330 MPa	47900 psi	ISO 178
Flexural Modulus	14.0 GPa @Temperature 23.0 °C	2030 ksi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	7.80 kJ/m ²	3.71 ft-lb/in ²	ISO 180
Charpy Impact, Notched	0.990 J/cm ²	4.71 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	302 °C	576 °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	
Front Barrel Temperature	324 - 335 °C	615 - 635 °F	

Processing Properties	Metric 43 °C	English 109 °F	Comments
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
Agency Ratings	NSF 61	Tested at 82 °C (180 °F) (Commercial Hot)
Appearance	Black	
	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 Descriptive Properties	Appliances Value	Comments
	Consumer Applications	
	Filters	
	Housings	
	Industrial Applications	
	Plumbing Parts	
	Pump Parts	
	Valves/Valve Parts	

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