

Solvay Specialty Polymers Amodel® A-1133 DW Polyphthalamide (PPA) (discontinued **)

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

Material Notes:

Amodel A-1133 DW is a 33% glass-fiber reinforced polyphthalamide (PPA) grade approved for use with potable water in the United States, the United Kingdom and France. - Natural: A-1133 NT DW - Black: A-1133 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-1133-DW-Polyphthalamide-PPA-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183/A
Filler Content	33 %	33 %	Glass Fiber Reinforcement

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	188 MPa	27300 psi	ISO 527-2
Elongation at Break	1.7 %	1.7 %	ISO 527-2
Tensile Modulus	11.2 GPa	1620 ksi	ISO 527-2
Flexural Strength	268 MPa	38900 psi	ISO 178
Flexural Modulus	10.4 GPa @Temperature 23.0 °C	1510 ksi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180
Charpy Impact, Notched	0.820 J/cm ²	3.90 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	296 °C	565 °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	
Melt Temperature	321 - 343 °C	610 - 649 °F	
Mold Temperature	150 °C	302 °F	

Processing Properties	Metric	English	Comments
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 Strength	
Forms	Pellets	
Generic	PPA	
Processing Method	Injection Molding	
RoHS Compliance	RoHS Compliant	
Uses	Appliances	
	Consumer Applications	
	Housings	
	Industrial Applications	
	Plumbing Parts	

Descriptive Properties	Pump Parts Value	Comments
Valves/Valve Parts		

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