

Solvay Specialty Polymers Amodel® A-1133 NL WH 886 Polyphthalamide (PPA) (discontinued **)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 10% Glass Fiber Reinforced

Material Notes:

Amodel A-1133 NL WH 886 resin is a glass reinforced polyphthalamide (PPA) which is distinguished by its high-reflectivity white color. This grade features a high deflection temperature for compatibility with SMT processes, and low moisture absorption. - White: A-1133 NL WH 886 Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-A-1133-NL-WH-886-Polyphthalamide-PPA-nbspdiscontinued.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	ISO 1183/A
Water Absorption	0.12 % @Time 86400 sec	0.12 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	125	125	R-Scale; ASTM D785
Tensile Strength	120 MPa	17400 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Tensile Modulus	9.17 GPa	1330 ksi	ASTM D638
Flexural Strength	175 MPa	25400 psi	ASTM D790
Flexural Modulus	7.52 GPa	1090 ksi	ASTM D790
Poissons Ratio	0.41	0.41	ASTM E132
Shear Modulus	3.25 GPa	471 ksi	Calculated
Izod Impact, Notched	0.270 J/cm	0.506 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C @Temperature 160 - 249 °C	11.1 µin/in-°F @Temperature 320 - 480 °F	TMA; ASTM E831

Thermal Properties	25.0 $\mu\text{m}/\text{m}\cdot\text{C}$ Metric	13.9 $\mu\text{in}/\text{in}\cdot\text{F}$ English	Comments TMA, ASTM E831
	@Temperature 0.000 - 100 °C	@Temperature 32.0 - 212 °F	
CTE, linear, Transverse to Flow	41.0 $\mu\text{m}/\text{m}\cdot\text{C}$	22.8 $\mu\text{in}/\text{in}\cdot\text{F}$	ASTM E228
	@Temperature 0.000 - 100 °C	@Temperature 32.0 - 212 °F	
	65.0 $\mu\text{m}/\text{m}\cdot\text{C}$	36.1 $\mu\text{in}/\text{in}\cdot\text{F}$	ASTM E228
	@Temperature 160 - 249 °C	@Temperature 320 - 480 °F	
Melting Point	325 °C	617 °F	ASTM D570
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	304 - 318 °C	579 - 604 °F	
Front Barrel Temperature	316 - 329 °C	601 - 624 °F	
Melt Temperature	321 - 343 °C	610 - 649 °F	
Mold Temperature	135 °C	275 °F	
Drying Temperature	120 °C	248 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	0.060 %	0.060 %	

Descriptive Properties	Value	Comments
Appearance	White	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Good Chemical Resistance	
	Good Color Stability	
	High Reflectivity	

Descriptive Properties	Low Moisture Absorption Value	Comments
Filler	Glass Fiber Reinforcement	
Forms	Pellets	
Generic	PPA	
Processing Method	Injection Molding	
Uses	Automotive Electronics	
	LEDs	

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