

Solvay Specialty Polymers Amodel® A-1133 NL WH 505 Polyphthalamide (PPA), 33% Glass Fiber

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

Material Notes:

Amodel® A-1133 NL resin is a 33% 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. Features: Good Chemical Resistance; Good Color Stability; High Reflectivity; Low Moisture Absorption. Uses: Automotive Electronics; Housings; LEDs. Injection Molding Notes: A general purpose screw is recommended, with minimum back pressure. Automotive Specifications ASTM D6779 PA128G35. 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-505-Polyphthalamide-PPA-33-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	ISO 1183
Filler Content	33 %	33 %	Glass Fiber
Water Absorption	0.16 % @Time 86400 sec	0.16 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	125	125	ASTM D785
Tensile Strength at Break	179 MPa	26000 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
Tensile Modulus	12.4 GPa	1800 ksi	ASTM D638
Flexural Yield Strength	236 MPa	34200 psi	ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	ASTM D790
Poissons Ratio	0.41	0.41	ASTM E132
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 Åµm/m-Å°C @Temperature 160 -	7.78 Åµin/in-Å°F @Temperature 320 -	2

Thermal Properties	250 Â°C Metric	482 Â°F English	Comments
	23.0 Âµm/m-Â°C	12.8 Âµin/in-Â°F	2
	@Temperature 0.000 - 100 Â°C	@Temperature 32.0 - 212 Â°F	
CTE, linear, Transverse to Flow	45.0 Âµm/m-Â°C	25.0 Âµin/in-Â°F	TMA; ASTM E831
	@Temperature 0.000 - 100 Â°C	@Temperature 32.0 - 212 Â°F	
	100 Âµm/m-Â°C	55.6 Âµin/in-Â°F	TMA; ASTM E831
	@Temperature 100 - 250 Â°C	@Temperature 212 - 482 Â°F	
Melting Point	310 Â°C	590 Â°F	DSC
Deflection Temperature at 1.8 MPa (264 psi)	271 Â°C	520 Â°F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	304 - 318 Â°C	579 - 604 Â°F	
Front Barrel Temperature	316 - 329 Â°C	601 - 624 Â°F	
Melt Temperature	321 - 343 Â°C	610 - 649 Â°F	
Mold Temperature	135 Â°C	275 Â°F	
Drying Temperature	120 Â°C	248 Â°F	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	<= 0.045 %	<= 0.045 %	

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	White	
Form	Pellets	
Processing Technique	Injection Molding	

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