Solvay Specialty Polymers AmodelÂ® A-1133 L WH 015 Polyphthalamide (PPA), 33% Glass Fiber

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

Material Notes:

Formerly referred to as AmodelÂ® PXM-13015. AmodelÂ® A-1133 L 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 AbsorptionUses: Automotive Electronics; Housings; LEDsInjection Molding Notes: A general purpose screw is recommended, with minimum back pressure.Additional Properties: Optical Reflectivity - 85.8; Optical Reflectivity - 90.6; Optical Reflectivity - 90.0Information provided by Solvay Specialty Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-A-1133-L-WH-015-Polyphthalamide-PPA-33-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Filler Content	33 %	33 %	Glass Fiber
Linear Mold Shrinkage, Flow	0.0037 cm/cm	0.0037 in/in	
Linear Mold Shrinkage, Transverse	0.0089 cm/cm	0.0089 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	174 MPa	25200 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
Flexural Strength	246 MPa	35700 psi	ASTM D790
Flexural Modulus	11.9 GPa	1730 ksi	ASTM D790
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 Âµm/m-Â°C @Temperature 0.000 - 100 Â°C	10.6 Âµin/in-Â°F @Temperature 32.0 - 212 Â°F	2
	20.0 Âµm/m-Â°C @Temperature 100 - 200 Â°C	11.1 Âµin/in-Â°F @Temperature 212 - 392 Â°F	2
CTE, linear, Transverse to Flow	49.0 Âµm/m-Â°C @Temperature 50.0 - 100 Â°C	27.2 Âµin/in-Â°F @Temperature 122 - 212 Â°F	TMA; ASTM E831

Thermal Properties	Metric	English	Comments
	56.0 Âµm/m-Â°C @Temperature 100 - 150 Â°C	31.1 Âµin/in-Â°F @Temperature 212 - 302 Â°F	TMA; ASTM E831
	68.0 Âµm/m-Â°C @Temperature 150 - 200 Â°C	37.8 Âµin/in-Â°F @Temperature 302 - 392 Â°F	TMA; ASTM E831
	130 Âµm/m-Â°C @Temperature 200 - 250 Â°C	72.2 Âµin/in-Â°F @Temperature 392 - 482 Â°F	TMA; ASTM E831
Melting Point	318 Â°C	604 Â°F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	302 Â°C	576 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	269 Â°C	516 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 @Time 14400 sec	248 Â°F @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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