

Amodel® A-1133 L WH 015

Polyphthalamide
Solvay Specialty Polymers

Message:

AMODEL A- 1133 NL resin is 33% glass fiber reinforced polyphthalamide (PPA), which is characterized by highly reflective white resin. The brand is characterized by high deformation temperature and low hygroscopicity compatible with SMT process. -white: A- 1133 NL WH 505

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 33% filler by weight		
Features	Low hygroscopicity		
	High reflectivity		
	Good color stability		
	Good chemical resistance		
Uses	LEDs		
	Automotive Electronics		
	Shell		
RoHS Compliance	Contact manufacturer		
Appearance	White		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			ASTM D955
Flow	0.37	%	ASTM D955
Transverse flow	0.89	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	174	MPa	ASTM D638
Tensile Elongation (Break)	1.8	%	ASTM D638
Flexural Modulus	11900	MPa	ASTM D790
Flexural Strength	246	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	302	°C	ASTM D648
1.8 MPa, not annealed	269	°C	ASTM D648
Melting Temperature	318	°C	ASTM D570
Linear thermal expansion coefficient			ASTM E831
Flow: 50 to 100°C	1.9E-5	cm/cm/°C	ASTM E831

Flow: 100 to 150°C	2.0E-5	cm/cm/°C	ASTM E831
Horizontal: 50 to 100°C	4.9E-5	cm/cm/°C	ASTM E831
Horizontal: 100 to 150°C	5.6E-5	cm/cm/°C	ASTM E831
Horizontal: 150 to 200°C	6.8E-5	cm/cm/°C	ASTM E831
Horizontal: 200 to 250°C	1.3E-4	cm/cm/°C	ASTM E831

Additional Information	Nominal Value
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Light reflectivity	
460 nm	85.8
540 nm	90.6
620 nm	90.0

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.045	%
Rear Temperature	304 - 318	°C
Front Temperature	316 - 329	°C
Processing (Melt) Temp	321 - 343	°C
Mold Temperature	135	°C

Injection instructions

建议采用通用螺杆,取最小背压

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Recommended distributors for this material

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