

Amodel® A-1133 NL WH 505

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			
UL YellowCard	E95746-253216		
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
Density	1.54	g/cm ³	ISO 1183/A
Molding Shrinkage			ASTM D955
Flow	0.20	%	ASTM D955
Transverse flow	0.60	%	ASTM D955
Water Absorption (24 hr)	0.16	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12400	MPa	ASTM D638
Tensile Strength (Break)	179	MPa	ASTM D638
Tensile Elongation (Break)	1.8	%	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength (Yield)	236	MPa	ASTM D790
Poisson's Ratio	0.41		ASTM E132
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	37	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	271	°C	ASTM D648
Melting Temperature	310	°C	ASTM D570
Linear thermal expansion coefficient			ASTM E831
Flow: 0 to 100°C	2.3E-5	cm/cm/°C	ASTM E831
Flow: 160 to 249°C	1.4E-5	cm/cm/°C	ASTM E831
Lateral: 0 to 100°C	4.5E-6	cm/cm/°C	ASTM E831
Lateral: 160 to 249°C	1.0E-4	cm/cm/°C	ASTM E831
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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