

Amodel® A-4122 NL WH 905

Polyphthalamide
Solvay Specialty Polymers

Message:

A- 4122 NL AMODEL resin is a 22% glass fiber reinforced high reflective white grade polyphthalamide (PPA), mainly to obtain high crystallinity during water-cooled mold molding. This material has high heat resistance, high strength and rigidity over a wide temperature range. At the same time, it has low hygroscopicity, excellent chemical resistance and excellent electrical properties. Rapid crystallization and high fluidity may shorten the production cycle, thereby improving molding efficiency and reducing component costs. -white: A- 4122 NL WH 905

General Information			
UL YellowCard	E95746-253223	E161096-100795700	
Filler / Reinforcement	Glass fiber reinforced material, 22% filler by weight		
Features	Low hygroscopicity		
	High reflectivity		
	Rigidity, high		
	Fast molding cycle		
	Good color stability		
	Good chemical resistance		
Uses	Electrical/Electronic Applications		
	Parts under the hood of a car		
	Automotive Electronics		
	Application in Automobile Field		
RoHS Compliance	RoHS compliance		
Appearance	White		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm³	ISO 1183/A
Molding Shrinkage			ASTM D955
Flow	0.40	%	ASTM D955
Transverse flow	0.60	%	ASTM D955
Water Absorption (24 hr)	0.24	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	124		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9170	MPa	ASTM D638
Tensile Strength (Break)	123	MPa	ASTM D638
Tensile Elongation (Break)	1.6	%	ASTM D638
Flexural Modulus	8000	MPa	ASTM D790

Flexural Strength (Yield)	171	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	27	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	313	°C	ASTM D648
Peak Melting Temperature	324	°C	ASTM D3418
Linear thermal expansion coefficient			ASTM E831
Flow: 0 to 100°C	2.3E-5	cm/cm/°C	ASTM E831
Flow: 150 to 250°C	1.1E-5	cm/cm/°C	ASTM E831
Lateral: 0 to 100°C	8.6E-5	cm/cm/°C	ASTM E831
Lateral: 150 to 250°C	1.3E-4	cm/cm/°C	ASTM E831
Additional Information	Nominal Value	Unit	Test Method
Light reflectivity	90	%	ASTM E1331
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.045	%	
Rear Temperature	318 - 324	°C	
Front Temperature	327 - 332	°C	
Processing (Melt) Temp	329 - 343	°C	
Mold Temperature	65.6 - 93.3	°C	
Injection instructions			

建议采用通用螺杆,取最小背压 射出压力:3~4英寸/秒

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