

Amodel® A-4122 LS WH 678

Polyphthalamide
Solvay Specialty Polymers

Message:

Amodel A- 4122 LS is a 22% glass fiber reinforced, photostable, highly reflective white Amodel polyphthalamide (PPA). It is designed to have high crystallinity when forming a water-cooled mold. The resin has high heat resistance, high strength, high rigidity, low moisture absorption, excellent chemical resistance and excellent electrical properties in a wide temperature range.
with rapid crystallization, high fluidity, resulting in a short processing cycle, improve molding efficiency, reduce component costs.
white: A- 4122 LS WH678

General Information			
UL YellowCard	E95746-100423314	E161096-100803123	
Filler / Reinforcement	Glass fiber reinforced material, 22% filler by weight		
Additive	UV stabilizer		
Features	Low hygroscopicity		
	High reflectivity		
	Rigidity, high		
	Light stabilization		
	Fast molding cycle		
	Good color stability		
	Good chemical resistance		
Uses	Automotive Electronics		
	Application in Automobile Field		
RoHS Compliance	RoHS compliance		
Appearance	White		
Forms	Particle		
Processing Method	Water temperature mold injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.59	g/cm ³	ISO 1183/A
Molding Shrinkage			ASTM D955
Flow	0.40	%	ASTM D955
Transverse flow	0.60	%	ASTM D955
Water Absorption (24 hr)	0.19	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	124		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9100	MPa	ASTM D638
Tensile Strength	104	MPa	ASTM D638
Tensile Elongation (Break)	1.2	%	ASTM D638

Flexural Modulus	8100	MPa	ASTM D790
Flexural Strength	165	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	18	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	290	°C	ASTM D648
Peak Melting Temperature	323	°C	ASTM D3418
Linear thermal expansion coefficient			
Flow: 0 to 100°C	2.5E-4	cm/cm/°C	ASTM E831
Flow: 150 to 250°C	1.9E-4	cm/cm/°C	ASTM E831
Lateral: 0 to 100°C	9.6E-4	cm/cm/°C	ASTM E228
Lateral: 150 to 250°C	1.5E-3	cm/cm/°C	ASTM E228
Additional Information	Nominal Value	Unit	Test Method
Light reflectivity			ASTM E1331
460 nm	> 90	%	ASTM E1331
540 nm	> 90	%	ASTM E1331
615 nm	> 90	%	ASTM E1331
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.030 - 0.060	%	
Rear Temperature	318 - 324	°C	
Middle Temperature	318 - 324	°C	
Front Temperature	327 - 332	°C	
Processing (Melt) Temp	329 - 343	°C	
Mold Temperature	65.0 - 93.0	°C	
Injection instructions			

射出速度: 3~4英寸/秒 保压压力:射出压力的50%

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