

Amodel® A-4422 LS WH118

Polyphthalamide
Solvay Specialty Polymers

Message:

Amodel A- 4422 LS resin is 22% enhanced, light stable, highly reflective, white polyphthalamide (PPA). It has high heat resistance, high strength, high rigidity, low moisture absorption, excellent chemical resistance and excellent electrical properties in a wide temperature range. Rapid crystallization and high fluidity can shorten the processing cycle, improve molding efficiency and reduce part of the cost. -White: A- 4422 LS WH118

General Information			
UL YellowCard	E95746-100047241	E161096-100795701	
Filler / Reinforcement	Mineral filler, 22% filler by weight		
Features	Low hygroscopicity		
	High reflectivity		
	Rigidity, high		
	Light stabilization		
	Fast molding cycle		
	Good color stability		
	Good chemical resistance		
Uses	LEDs		
	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	1.60	g/cm ³	ISO 1183/A
Molding Shrinkage			ASTM D955
Flow	0.50	%	ASTM D955
Transverse flow	0.60	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9100	MPa	ISO 527-2
Tensile Strength	102	MPa	ASTM D638
Tensile Strain (Break)	1.3	%	ISO 527-2
Flexural Modulus	7790	MPa	ISO 178
Flexural Stress	171	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	2.9	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	306	°C	ISO 75-2/B
Melting Temperature	324	°C	ISO 11357-3
Linear thermal expansion coefficient			ASTM E831
Flow: 50 to 100°C	3.1E-5	cm/cm/°C	ASTM E831
Flow: 100 to 150°C	3.8E-5	cm/cm/°C	ASTM E831
Flow: 150 to 200°C	2.7E-5	cm/cm/°C	ASTM E831
Flow: 200 to 250°C	3.1E-5	cm/cm/°C	ASTM E831
Horizontal: 50 to 100°C	6.3E-5	cm/cm/°C	ASTM E831
Horizontal: 100 to 150°C	1.0E-4	cm/cm/°C	ASTM E831
Horizontal: 150 to 200°C	1.3E-4	cm/cm/°C	ASTM E831
Horizontal: 200 to 250°C	1.5E-4	cm/cm/°C	ASTM E831
Additional Information	Nominal Value	Unit	Test Method
Light reflectivity			ASTM E1331
-- ¹	> 90	%	ASTM E1331
-- ²	> 90	%	ASTM E1331
-- ³	> 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			
射出压力:3~4英寸/秒			
NOTE			
1.	615 nm		
2.	540 nm		
3.	460 nm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT