

Lavanta® 5115 WH 251

High Performance Polyester

Solvay Specialty Polymers

Message:

Lavanta® 5115 WH 251 is a high-performance polyester (HPP) is a 15% glass reinforced, injection molding grade developed specifically for HB LED packaging applications that utilize surface mount technology.

Lavanta® 5115 WH 251 has high reflectivity with excellent whiteness retention even after thermal and light aging. This gives it excellent reliability for LEDs that operate at high junction temperatures.

White: 5115 WH 251

General Information			
UL YellowCard	E95746-101724020		
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Features	Fast Molding Cycle		
	Good Chemical Resistance		
	Good Color Stability		
	High Reflectivity		
	High Stiffness		
	Light Stabilized		
	Low Moisture Absorption		
Uses	LEDs		
RoHS Compliance	Contact Manufacturer		
Appearance	White		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.63	g/cm ³	ISO 1183/A
Molding Shrinkage			ASTM D955
Flow	0.52	%	
Across Flow	1.3	%	
Water Absorption (24 hr)	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6820	MPa	ISO 527-2
Tensile Strength	72.0	MPa	ASTM D638
Tensile Strain (Break)	1.4	%	ISO 527-2
Flexural Modulus	6380	MPa	ISO 178
Flexural Stress	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	2.1	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	267	°C	ISO 75-2/B
1.8 MPa, Annealed	203	°C	ISO 75-2/A
Melting Temperature	285	°C	ISO 11357-3
CLTE			ASTM E831
Flow : 50 to 100°C	2.9E-5	cm/cm/°C	
Flow : 100 to 150°C	2.6E-5	cm/cm/°C	
Flow : 150 to 200°C	2.4E-5	cm/cm/°C	
Flow : 200 to 250°C	2.2E-5	cm/cm/°C	
Transverse : 50 to 100°C	6.4E-5	cm/cm/°C	
Transverse : 100 to 150°C	1.0E-4	cm/cm/°C	
Transverse : 150 to 200°C	1.3E-4	cm/cm/°C	
Transverse : 200 to 250°C	1.4E-4	cm/cm/°C	
Additional Information	Nominal Value	Unit	Test Method
Optical Reflectivity			ASTM E1331
460 nm	> 95	%	
540 nm	> 95	%	
620 nm	> 96	%	
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.030	%	
Rear Temperature	305	°C	
Front Temperature	290	°C	
Processing (Melt) Temp	295 to 310	°C	
Mold Temperature	130 to 150	°C	

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