Lavanta® 5115 WH 224

High Performance Polyester

Solvay Specialty Polymers

Message:

Lavanta® 5115 WH 224 is a 15% glass fiber reinforced, high-performance polyester (HPP) injection molding grade developed specifically for HB LED packaging applications that utilize surface mount technology.
Lavanta® 5115 WH 224 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 224

General Information			
UL YellowCard	E95746-101724019		
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**
Specific Gravity	1.62	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.39	%	
Across Flow	1.2	%	
Water Absorption (24 hr)	0.048	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6730	MPa	ISO 527-2
Tensile Stress	73.3	MPa	ISO 527-2
Tensile Strain (Break)	1.5	%	ISO 527-2
Flexural Modulus	6230	MPa	ISO 178
Flexural Stress	108	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength	2.4	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**

Heat Deflection Temperature			
0.45 MPa, Unannealed	269	°C	ISO 75-2/B
1.8 MPa, Unannealed	214	°C	ISO 75-2/A
Melting Temperature	289	°C	ISO 11357-3
CLTE			ASTM E831
Flow : 50 to 100°C	2.9E-5	cm/cm/°C	
Flow : 150 to 200°C	1.7E-5	cm/cm/°C	
Flow : 200 to 250°C	2.0E-5	cm/cm/°C	
Transverse : 50 to 100°C	5.8E-5	cm/cm/°C	
Transverse : 100 to 150°C	1.0E-4	cm/cm/°C	
Transverse : 150 to 200°C	1.2E-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	

Recommended distributors for this material

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