

## Solvay Specialty Polymers Lavanta® 5115 WH224 Polyester, High Performance (HPP), 15% Glass Fiber

Category : Polymer , Thermoplastic , Polyester, TP

### Material Notes:

Lavanta® 5115 WH224 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 WH224 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. Features: Fast Molding Cycle; Good Chemical Resistance; Good Color Stability; High Reflectivity; High Stiffness; Light Stabilized; Low Moisture Absorption Uses: LEDs Additional Properties: Optical Reflectivity - ASTM E1331 > 95 %; Optical Reflectivity - ASTM E1331 > 95 %; Optical Reflectivity - ASTM E1331 > 96 % Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Lavanta-5115-WH224-Polyester-High-Performance-HPP-15-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Lavanta-5115-WH224-Polyester-High-Performance-HPP-15-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.62 g/cc	0.0585 lb/in <sup>3</sup>	ASTM D792
Filler Content	15 %	15 %	Glass Fiber
Water Absorption	0.048 % @Time 86400 sec	0.048 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0039 cm/cm	0.0039 in/in	
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Stress	73.3 MPa	10600 psi	ISO 527-2
Elongation at Break	1.5 %	1.5 %	ISO 527-2
Tensile Modulus	6.73 GPa	976 ksi	ISO 527-2
Flexural Strength	108 MPa	15700 psi	ISO 178
Flexural Modulus	6.23 GPa	904 ksi	ISO 178
Izod Impact, Notched (ISO)	2.40 kJ/m <sup>2</sup>	1.14 ft-lb/in <sup>2</sup>	Type 1, Notch A; ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Åµm/m-Å°C @Temperature 200 - 250 Å°C	11.1 Åµin/in-Å°F @Temperature 392 - 482 Å°F	3

Thermal Properties	Metric	English	Comments
	@Temperature 50.0 - 100 Å°C	@Temperature 122 - 212 Å°F	
	170 Åµm/m-Å°C	94.4 Åµin/in-Å°F	3
	@Temperature 150 - 200 Å°C	@Temperature 302 - 392 Å°F	
CTE, linear, Transverse to Flow	58.0 Åµm/m-Å°C	32.2 Åµin/in-Å°F	TMA; ASTM E831
	@Temperature 50.0 - 100 Å°C	@Temperature 122 - 212 Å°F	
	100 Åµm/m-Å°C	55.6 Åµin/in-Å°F	TMA; ASTM E831
	@Temperature 100 - 150 Å°C	@Temperature 212 - 302 Å°F	
	120 Åµm/m-Å°C	66.7 Åµin/in-Å°F	TMA; ASTM E831
	@Temperature 150 - 200 Å°C	@Temperature 302 - 392 Å°F	
	140 Åµm/m-Å°C	77.8 Åµin/in-Å°F	TMA; ASTM E831
	@Temperature 200 - 250 Å°C	@Temperature 392 - 482 Å°F	
Melting Point	289 Å°C	552 Å°F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	269 Å°C	516 Å°F	HDT B; Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	214 Å°C	417 Å°F	Unannealed; ISO 75-2/A

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	305 Å°C	581 Å°F	
Front Barrel Temperature	290 Å°C	554 Å°F	
Melt Temperature	295 - 310 Å°C	563 - 590 Å°F	
Mold Temperature	130 - 150 Å°C	266 - 302 Å°F	
Drying Temperature	120 Å°C	248 Å°F	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	<= 0.030 %	<= 0.030 %	

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	

Asia Pacific

Descriptive Properties	Value Europe	Comments
	Latin America	
	North America	
Color	White	
Form	Pellets	
Processing Technique	Injection Molding	

## Contact Songhan Plastic Technology Co.,Ltd.

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