

Solvay Specialty Polymers Lavanta® 5115 WH 011 Polyester, High Performance (HPP), 15% Glass Fiber

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Lavanta® 5115 WH011 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 011 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 > 96 %; Optical Reflectivity - ASTM E1331 > 96 %; 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-WH-011-Polyester-High-Performance-HPP-15-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.66 g/cc	0.0600 lb/in ³	ISO 1183
Filler Content	15 %	15 %	Glass Fiber
Water Absorption	0.050 % @Time 86400 sec	0.050 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0028 cm/cm	0.0028 in/in	
Linear Mold Shrinkage, Transverse	0.0082 cm/cm	0.0082 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	63.0 MPa	9140 psi	ASTM D638
Elongation at Break	1.1 %	1.1 %	ISO 527-2
Tensile Modulus	6.70 GPa	972 ksi	ISO 527-2
Flexural Strength	103 MPa	14900 psi	ISO 178
Flexural Modulus	6.07 GPa	880 ksi	ISO 178
Izod Impact, Notched (ISO)	2.60 kJ/m ²	1.24 ft-lb/in ²	Type 1, Notch A; ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 Åµm/m-Å°C @Temperature 200 - 250 Å°C	10.6 Åµin/in-Å°F @Temperature 392 - 482 Å°F	4

Thermal Properties	Metric	English	Comments
	@Temperature 150 - 200 Â°C	@Temperature 302 - 392 Â°F	
	27.0 Âµm/m-Â°C	15.0 Âµin/in-Â°F	
	@Temperature 50.0 - 100 Â°C	@Temperature 122 - 212 Â°F	4
	28.0 Âµm/m-Â°C	15.6 Âµin/in-Â°F	
	@Temperature 100 - 150 Â°C	@Temperature 212 - 302 Â°F	4
CTE, linear, Transverse to Flow	56.0 Âµm/m-Â°C	31.1 Âµin/in-Â°F	
	@Temperature 50.0 - 100 Â°C	@Temperature 122 - 212 Â°F	TMA; ASTM E831
	76.0 Âµm/m-Â°C	42.2 Âµin/in-Â°F	
	@Temperature 100 - 150 Â°C	@Temperature 212 - 302 Â°F	TMA; ASTM E831
	130 Âµm/m-Â°C	72.2 Âµin/in-Â°F	
	@Temperature 150 - 200 Â°C	@Temperature 302 - 392 Â°F	TMA; ASTM E831
	130 Âµm/m-Â°C	72.2 Âµin/in-Â°F	
	@Temperature 200 - 250 Â°C	@Temperature 392 - 482 Â°F	TMA; ASTM E831
Melting Point	289 Â°C	552 Â°F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	267 Â°C	513 Â°F	HDT B; Unannealed; ISO 75-2/B

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	305 Â°C	581 Â°F	
Front Barrel Temperature	290 Â°C	554 Â°F	
Melt Temperature	295 - 310 Â°C	563 - 590 Â°F	
Mold Temperature	145 Â°C	293 Â°F	
Drying Temperature	120 Â°C	248 Â°F	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	<= 0.030 %	<= 0.030 %	

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	

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

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