



LUXE

TECHNOLOGY FOR LED LIGHTING

AL-3W6K-IT PROPRIETIES

PROPERTIES	TYPICAL VALUES	TEST METHOD
THERMAL PROPERTIES		
Thermal Conductivity	3 W/m-K	ASTM D5470
Thermal Resistance	0.109 °C-in ² /W	ASTM D5470
Glass Transition Temperature	105°C	ASTM E1356
Max Operating Temperature	110°C	U.L. 796
ELECTRICAL PROPERTIES		
Permittivity (1MHz)	4.8	IPC-TM-650 2.5.5.9
Loss Tangent (1MHz)	0.018	IPC-TM-650 2.5.5.9
Volume Resistivity	>10 ¹⁰ MΩ-cm	ASTM D257
Surface Resistivity	>10 ¹⁰ MΩ	ASTM D257
Dielectric Strength	1000V/mil	ASTM D149
Breakdown Voltage	6k VAC	ASTM D149
MECHANICAL PROPERTIES		
Peel Strength @ 25°C	6 lb/inch (1.1N/mm)	ASTM D2861
CTE in Z Axis < Tg	40µm/m°C	ASTM D3386
CTE in Z Axis > Tg	250µm/m°C	ASTM D3386
Storage Modulus	480/450 N/mm ² (@ 25°C/150°C)	ASTM 4065
Water Vapor Retention	0.1%	ASTM E595
AGENCY RATINGS & DURABILITY		
U.L. Continuous Operating Temperature	110°C	U.L. 746B
U.L. Flammability	V-0	U.L. 94
Comparative Tracking Index (CTI)	0	ASTM D 3638
Solder Float	Pass	IPC-TM-650 2.4.13

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