Summary Of Dielectric Characteristics

		THERMAL PERFORMANCE		DIELECTRIC PERFORMANCE			OTHER			
Part Number	Thickness ¹ [10 ⁻³ in/10 ⁻⁶ m]	Impedance ² [°C/W]	Impedance ³ [°C in ² /W]	Conductivity ⁴ [°W/m-K]	Typical Proof Test ⁵ [VDC]	Breakdown ⁶ [kVAC]	Permitivity ⁷ [Dielectric Constant]	Glass Transition ⁸ [°C]	UL Index° [°C]	Peel Strength ¹⁰ [lb/in]
HT-04503	3/75	0.45	0.05	2.2	1500	6.0	7	150	140/140	6
HT-07006	6/150	0.70	0.07	2.2	2500	11.0	7	150		
LTI-04503	3/75	0.45	0.05	2.2	1500	6.5	7	90	130/130	6
LTI-06005	5/125	0.60	0.09	2.2	2000	9.5	7	90		
MP-06503	3/75	0.65	0.09	1.3	1500	8.5	6	90	130/140	9
CML-11006*	6/150	1.1	0.21	1.1	2500	10.0	7	90	130/130	10
Method	I - Opti	cal	3 - Calcula	ation from ASTM	5470 6 - A	ASTM D149		9 - UL 746 E		

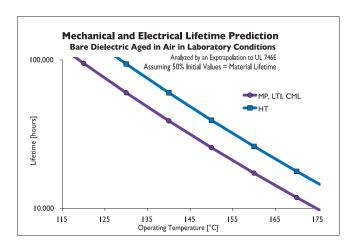
Method	I - Optical	3 - Calculation from ASTM 5470	6 - ASTM D149	9 - UL 746 E
Description	2- Internal TO-220 test RD 2018	4 - Extended ASTM 5470	7 - ASTM D150	10 - ASTM D286
		5 - 500 V/sec ramp, 5 sechold	8 - Internal MDSC test RD 2014	

Note: For applications with an expected voltage over 480 Volts AC, Bergquist recommends a dielectric thickness greater than 0.003" (75μm). *Note:* Maximum test voltage is a function of material and circuit design. Typical proof test does not represent the maximum.

Operating Temperatures

Choose the dielectric that best suits your operating temperature environment. For high temperature applications, such as automotive, HT offers the right solution. All of our dielectrics are UL recognized.

MATERIAL	UL RTI - ELECTRO / MECHANICAL
нт	140°C / 140°C
LTI	130°C / 130°C
MP	130°C / 140°C
CML	130°C / 130°C





^{*}CML is available in prepreg form.