

CHARACTERISTICS OF SILICONE FUSION TAPE

The following values are typical performance data and are not intended to be used as design data.

PROPERTY	TEST METHOD	PERFORMANCE
Operating Temperature Range:		
Continuous		-60°C to 200°C
Intermittent		-65°C to 260°C
Specific Gravity	ASTM D792	1.2
Hardness, Durometer, Shore A	ASTM D2148	
Room-cured - 24 Hours		50
Cured at 300°F - 24 Hours		70
Cured at 480°F - 24 Hours		75
Tensile Strength, psi, minimum	ASTM D119	700
Elongation, %, minimum	ASTM D119	300
Tear Strength, ppi, minimum	ASTM D624, Die B	
Bond Strength, pounds, minimum	MIL CID-A-A-59163	2 (1" width)
Adhesion, inches unwind, maximum	ASTM D2148	3
Cold Brittle Point, °C, maximum	ASTM D746	-65
Water Absorption, % max., by weight	MIL CID-A-A-59163	3
Dielectric Strength, volts/mil, minimum	MIL CID-A-A-59163	
Thickness 0.020 Inch		400
Thickness 0.030 Inch		400
Thickness 0.040 Inch		300
Thickness 0.050 Inch		275
Thickness 0.060 Inch		250
Thickness 0.080 Inch		200
Dielectric Constant, 1 KHz	ASTM D150	2.95
Dissipation Factor, 1 KHz	ASTM D150	<0.0004
Volume Resistivity, ohms/cm, minimum	MIL CID-A-A-59163	3x10 ¹⁴

We hope this is of some benefit. If you have additional questions or comments, please contact the Tyco Electronics Product Information Center at 800-522-6752.