

The Leading Edge In EMI Shielding Technology

Leader Tech's **TechSIL 5000[®]** Conductive Elastomer materials are ideal for applications requiring both excellent EMI shielding and environmental sealing across a wide temperature range. Conductive Elastomers are frequently found in military and aerospace applications but can also be applied economically to meet commercial design requirements. The **TechSIL 5000[®]** materials were developed by combining both silicone and fluorosilicone based rubber with various forms of conductive fillers including: silver plated copper, silver plated aluminum, silver plated glass, silver, nickel and nickel coated graphite. All formulations are compounded to be compatible with common fluid media and resist compression set resulting in years of continuous service.

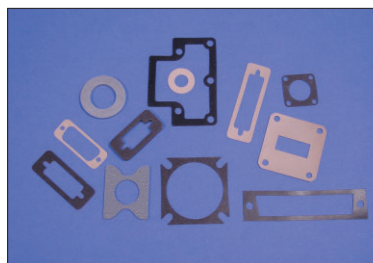
Leader Tech's **TechSIL 5000[®]** compounds are available in standard and custom configurations including: extruded, molded, sheet stock, and die-cut gaskets. Consult the chart below for specific electrical and physical property data. Additional formulations are available to meet an engineers specific design requirement.

Material Specifications							
LTE MATERIAL NUMBER		10	20	30	40	50	60
Elastomer Type: Silicone = SIL, Fluorosilicone = F.SIL		SIL	SIL	F. SIL	F. SIL	SIL	SIL
Filler Material: Silver = Ag, Copper = CU, Aluminum = Al, Nickel = Ni, Glass = G, Nickel Coated Graphite = Ni/C,		Ag/Cu	Ag/Al	Ag/Cu	Ag/Al	Ag/G	Ni/C
MIL-DTL-83528 Material Type:		A	B	C	D	M	-
ELECTRICAL PROPERTIES	TEST METHOD						
Volume Resistivity (Ohm-cm) (Max)	MIL-DTL-83528	.004	.008	.010	.012	.006	.10
Shielding Effectiveness (dB) 10GHz – (Min)	MIL-DTL-83528	110	100	110	90	100	100
PHYSICAL PROPERTIES							
Specific Gravity (+-13%)	ASTM D792	3.5	2.0	4.0	2.0	1.9	1.9
Hardness - Shore A (+-7)	ASTM D2240	65	65	75	70	65	55
Tensile Strength (Min)	ASTM D412	240	220	180	190	250	150
Elongation % (Min/Max)	ASTM D412	100/300	100/300	100/300	60/260	100/300	100/300
Tear Strength – PPI (Min)	ASTM D624 (DIE C)	30	30	35	35	35	30
Compression Set % (Max)	ASTM D395	30	31	35	30	45	25
Upper Operating Temp (°C)	-	125	160	125	160	160	160
Lower Operating Temp (°C)	ASTM D1329	-55	-55	-55	-55	-55	-55

The data presented is accurate and true to our knowledge. Since applications, test methods and test procedures may vary, we recommend that users perform their own tests to assure suitability for specific applications. We offer no product warranty, either expressed or implied, except we will replace any product found to be defective.

Sheet Material

Sheet Thickness	10 x 10	10 x 15	10 x 20
0.020	5020-1010-XX	5020-1015-XX	5020-1020-XX
0.032	5032-1010-XX	5032-1015-XX	5032-1020-XX
0.062	5062-1010-XX	5062-1015-XX	5062-1020-XX
0.093	5093-1010-XX	5093-1015-XX	5093-1020-XX
0.100	5100-1010-XX	5100-1015-XX	5100-1020-XX
0.125	5125-1010-XX	5125-1015-XX	5125-1020-XX



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