

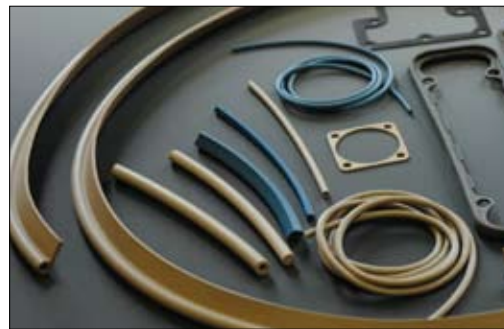


TechSIL

5000 Series

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 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.

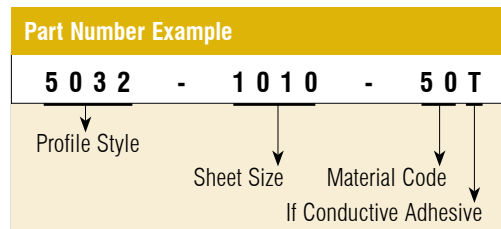
Leader Tech's *TechSIL 5000* compounds are available in standard and custom configurations including: extruded, molded, sheet stock, and die-cut gaskets. Consult the chart below for specific electrical and physical property data. Additional formulations are available to meet an engineers specific design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



Material Specifications							
LTE Material Number		LTE-10	LTE-20	LTE-30	LTE-40	LTE-50	LTE-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	200	200	180	180	200	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)	25	30	35	35	30	30
Compression Set % (Max)	ASTM D395	32	32	35	30	30	25
Upper Operating Temp (°C)	-	125	160	125	160	160	160
Lower Operating Temp (°C)	ASTM D1329	-55	-55	-55	-55	-55	-55

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

Conductive Adhesive Available - Please add a "T" to the end of the sheet material part number. See example below.

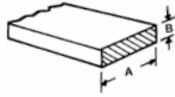




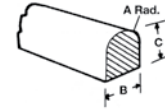
TechSIL (cont.)

5000 Series

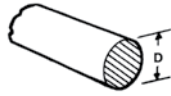
Solid Rectangular Strip		
Part Number	Width (A)	Height (B)
5200-0005-XX	0.063	0.042
5200-0010-XX	0.095	0.062
5200-0015-XX	0.120	0.075
5200-0020-XX	0.125	0.062
5200-0025-XX	0.156	0.062
5200-0030-XX	0.250	0.062
5200-0035-XX	0.500	0.075
5200-0040-XX	0.500	0.125
5200-0045-XX	0.500	0.188
5200-0050-XX	0.750	0.062
5200-0055-XX	0.880	0.062
5200-0060-XX	1.180	0.062



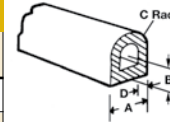
Solid D Strip			
Part Number	(A)	(B)	(C)
5500-0005-XX	0.031	0.062	0.068
5500-0010-XX	0.047	0.094	0.078
5500-0015-XX	0.039	0.078	0.089
5500-0020-XX	0.047	0.094	0.094
5500-0025-XX	0.031	0.062	0.100
5500-0030-XX	0.075	0.150	0.110
5500-0035-XX	0.061	0.124	0.136
5500-0040-XX	0.059	0.118	0.156
5500-0045-XX	0.078	0.156	0.156
5500-0050-XX	0.890	0.178	0.175
5500-0055-XX	0.094	0.188	0.188
5500-0060-XX	0.125	0.250	0.250



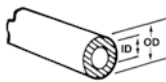
Solid Round Strip	
Part Number	Diameter (D)
5300-0005-XX	0.040
5300-0010-XX	0.062
5300-0012-XX	0.070
5300-0015-XX	0.080
5300-0020-XX	0.093
5300-0025-XX	0.103
5300-0030-XX	0.119
5300-0035-XX	0.125
5300-0040-XX	0.139
5300-0045-XX	0.188
5300-0050-XX	0.216
5300-0055-XX	0.250



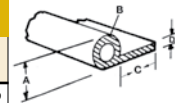
Hollow D Strip				
Part Number	(A)	(B)	(C)	(D)
5600-0005-XX	0.156	0.078	0.078	0.045
5600-0010-XX	0.187	0.093	0.093	0.050
5600-0015-XX	0.250	0.125	0.125	0.065
5600-0020-XX	0.312	0.156	0.156	0.062
5600-0025-XX	0.312	0.200	0.112	0.062
5600-0030-XX	0.487	0.080	0.244	0.080



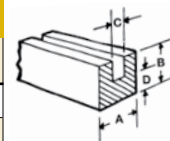
Hollow Round Tubing		
Part Number	(OD)	(ID)
5400-0005-XX	0.090	0.050
5400-0010-XX	0.103	0.040
5400-0015-XX	0.125	0.045
5400-0020-XX	0.125	0.062
5400-0025-XX	0.156	0.050
5400-0030-XX	0.250	0.125
5400-0035-XX	0.312	0.192
5400-0040-XX	0.375	0.250



P Strip Tubing				
Part Number	(A)	(B)	(C)	(D)
5700-0005-XX	0.200	0.080	0.650	0.062
5700-0010-XX	0.250	0.125	0.250	0.062
5700-0015-XX	0.250	0.125	0.375	0.062
5700-0020-XX	0.250	0.150	0.375	0.062
5700-0025-XX	0.312	0.187	0.563	0.062
5700-0030-XX	0.360	0.255	0.420	0.070
5700-0035-XX	0.200	0.080	0.275	0.062
5700-0040-XX	0.250	0.125	0.625	0.062



U Channel Strip				
Part Number	(A)	(B)	(C)	(D)
5800-0005-XX	0.100	0.100	0.034	0.033
5800-0010-XX	0.126	0.110	0.026	0.050
5800-0015-XX	0.126	0.225	0.020	0.075
5800-0020-XX	0.156	0.156	0.062	0.047
5800-0025-XX	0.175	0.156	0.047	0.075
5800-0030-XX	0.327	0.235	0.062	0.115



Part Number Example				
5 X X X	-	9 X X X	-	X X
↓		↓		↓
Profile Style		9 if tape required		Assigned by Leader Tech
		Assigned by Leader Tech		Material Code