



ELFA artikelnr.

- 50-157-97 EMC-packn Sheet Ni/grafit
- 50-158-05 EMC-packn Sheet Ag/Al
- 50-158-13 EMC-packn Rec 0105-93
- 50-158-21 EMC-packn Rec 0125-93
- 50-158-47 EMC-packn O-strip 0110-93
- 50-158-54 EMC-packn O-strip 0125-93
- 50-158-62 EMC-packn O-strip 0140-93

- 50-159-04 EMC-packn O-tube 0100-93
- 50-159-12 EMC-packn O-tube 0110-93
- 50-159-46 EMC-packn D-strip 0100-93
- 50-159-53 EMC-packn D-strip 0110-93
- 50-159-61 EMC-packn D-strip 9126-93
- 50-159-79 EMC-packn D-strip 9128-93



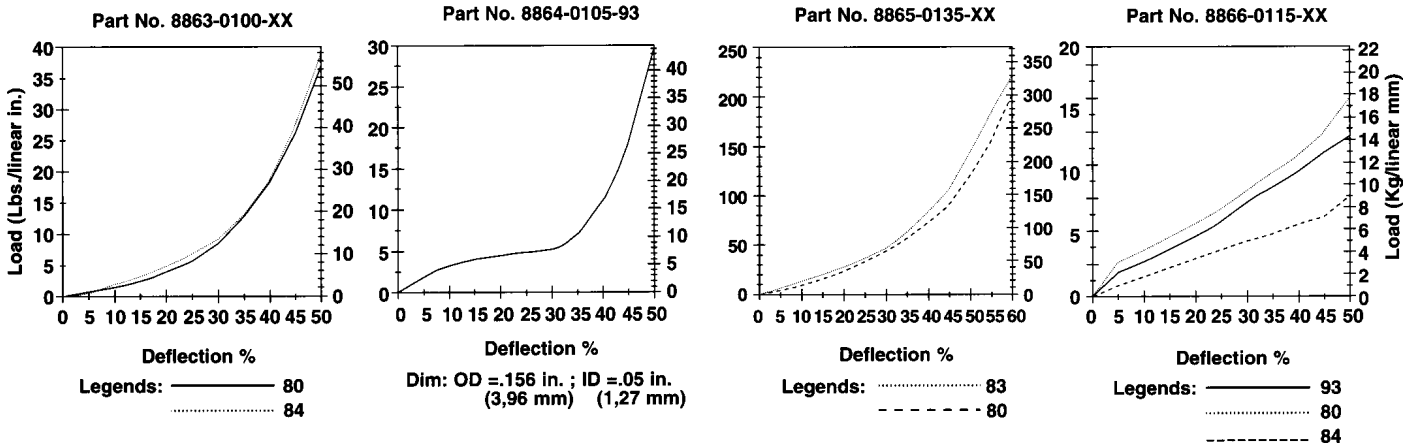
Instrument  
Specialties

Where Shielding  
is a Science.



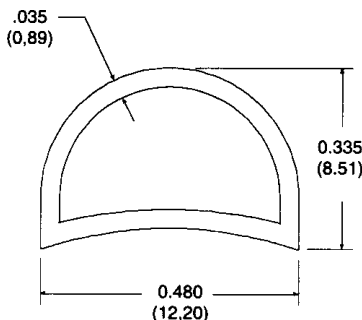
## Electrically Conductive Elastomer (EcE) EMI Shielding

### Compression-Deflection

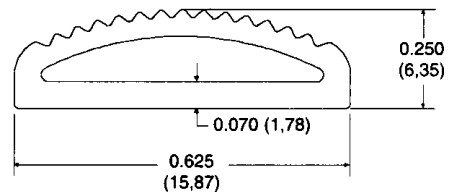


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8866-9126-93  
50-159-61



8866-9128-93  
50-159-79

**Electrically Conductive Elastomers Material Codes**

ECC Material Number		80	81	82	83	84	85	86	87	88	89	90	91	92	93	
Elastomer Type		Sil.	Sil.	Sil.	Sil.	Sil.	Sil.	Sil.	Sil.	F.Sil.	F.Sil.	F.Sil.	EPDM	F.Sil.	Sil.	
Filler Material (Ag=Silver, Cu=Copper, Al=Aluminum, Ni=Nickel)		Ag/Cu	Ag/Al	Ag	Ag	Ag/Ni	Ag/Glass	Ni	Carbon	Ag/Cu	Ag/Al	Ag/Ni	Ag/Ni	Ni/Graphite	Ni/Graphite	
Color		Gray	Tan	Beige	Beige	Tan	Tan	Dk. Gray	Black	Gray	Blue	Tan	Black	Dk. Gray	Black	
Electrical Properties		Tot.		Test Method												
Volume Resistivity (ohm-cm) (as supplied)	Max	.003	.005	.002	.008	.004	.006	.10	5.0	.004	.005	.004	.006	.01	0.1	
	Min.	70	70	70	60	75	50	70	30	70	70	75	60	N/A	N/A	
Shielding Effectiveness (dB)	200 KHz (H-Field)	120	115	120	100	110	100	95	70	120	110	110	110	100	100	
	100 MHz (E-Field)	120	110	120	100	110	100	90	60	120	105	110	100	100	100	
2 GHz (Plane Wave)	Min.	120	105	120	90	105	100	80	40	115	100	105	100	100	100	
	Max	120	100	120	80	100	100	75	30	110	100	100	100	100	100	
Electrical Stability																
After Heat Aging (ohm-cm)	Max	.007	.007	.006	.010	.006	.010	.12	7.0	.007	.007	.008	.008	.025	0.25	
	Min.	.004	.007	.003	.020	.005	.008	.15	7.0	.005	.007	.005	.007	0.10	0.10	
After Break (ohm-cm)	Max	.006	.007	.004	.015	.008	N/A	N/A	N/A	.006	.007	.008	N/A	0.1	0.01	
	Min.	.003	.005	.002	.010	.004	N/A	N/A	N/A	.004	.005	.005	N/A	0.10	0.10	
After Exposure to EMP (ohm-cm) (0.9 KAmpl/inch of perimeter)	Max	.007	.008	.006	N/A	.006	N/A	N/A	N/A	.007	.008	.008	N/A	0.1	0.1	
	Min.															
Physical Properties																
Specific Gravity	(±) .25	3.5	2.0	3.6	1.8	4.0	1.9	2.9	1.3	4.1	2.2	4.3	3.9	2.2	1.90	
	(±) 7	65	65	65	45	75	65	75	75	75	70	75	75	65	55	
Tensile Strength (PSI)	Min.	240	250	450	175	500	300	200	700	200	190	400	200	150	150	
	Min./Max	100/300	100/300	200/400	50/250	100/300	100/300	70/300	100/300	100/300	70/250	100/300	200/500	200/400	200/400	
Tear Strength (PPI)	Min.	40	31	60	20	55	40	50	70	40	35	50	80	40	50	
	Max	22	25	35	30	25	30	60	45	24	25	25	40	20	23	
Upper Operating Temperature (°C)*	Max	160	160/200	160/200	160/200	160/200	160/200	160	160/200	160	160/200	160/200	125	160	160	
	Min.	-65	-65	-65	-55	-55	-55	-55	-55	-55	-55	-55	-50	-55	-55	
Lower Operating Temperature (°C)	Min.	3.5	3.5	2.5	8.0	3.5	3.0	10.0	3.5	3.5	3.5	3.0	3.0	8	8	
	Min.	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	SUR	SUR	SUR	N/S	SUR	N/S	
Fluid Immersion**	Max															
	Min.															
Recommended Application																
Molded Sheet/Die Cut Parts	Max	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	Min.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Extruded Profiles	Max															
	Min.															
Metal/Elastomer Seals	Max	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	Min.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
O-Rings/Molded Shapes	Max	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	Min.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

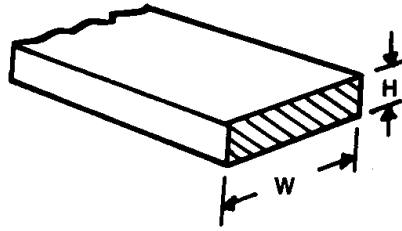
\*Maximum temperature to which material can be exposed is 320°F (160°C) unless otherwise specified as 392°F (200°C), i.e., 320/392 (160/200).

\*\* N/S=Not Survivable

### Molded Sheet Thickness

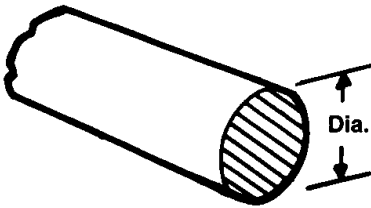
Part No.	Thickness
8860-0100-XX	.020 ± .004 (.51 ± .10)
8860-0105-XX	.030 ± .005 (.76 ± .13)
8860-0110-XX	.060 ± .007 (1.52 ± .18)
8860-0115-XX	.090 ± .010 (2.29 ± .25)
8860-0120-XX	.100 ± .010 (2.54 ± .25)
8860-0125-XX	.125 ± .010( 3.18 ± .25)

### Rectangular Strips



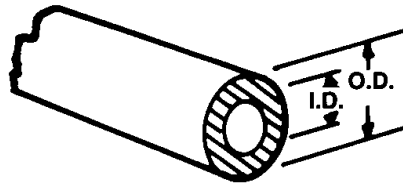
Part No.	Nominal Dimensions	
	W	H
8861-0100-XX	0.063 (1,60)	0.042 (1,07)
8861-0105-XX	0.095 (2,41)	0.062 (1,57)
8861-0110-XX	0.120 (3,05)	0.075 (1,91)
8861-0115-XX	0.125 (3,18)	0.062 (1,57)
8861-0120-XX	0.156 (3,96)	0.062 (1,57)
8861-0125-XX	0.250 (6,35)	0.062 (1,57)
8861-0130-XX	0.500 (12,70)	0.075 (1,91)
8861-0135-XX	0.500 (12,70)	0.125 (3,18)

### O-Strips



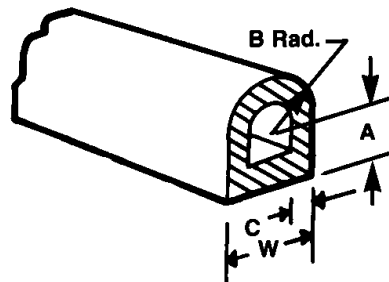
Part No.	Nominal Dimensions (Dia.)	Recommended Groove Dimensions	
		Depth	Width
8863-0100-XX	0.040 (1,02)	0.033 (0,84)	0.051 (1,30)
8863-0105-XX	0.053 (1,35)	0.043 (1,09)	0.064 (1,63)
8863-0110-XX	0.062 (1,57)	0.051 (1,30)	0.072 (1,83)
8863-0115-XX	0.070 (1,78)	0.057 (1,45)	0.080 (2,03)
8863-0120-XX	0.080 (2,03)	0.066 (1,68)	0.089 (2,26)
8863-0125-XX	0.093 (2,36)	0.076 (1,93)	0.102 (2,59)
8863-0130-XX	0.103 (2,62)	0.084 (2,13)	0.114 (2,90)
8863-0135-XX	0.112 (2,84)	0.092 (2,34)	0.121 (3,07)
8863-0140-XX	0.119 (3,02)	0.098 (2,49)	0.128 (3,25)
8863-0145-XX	0.125 (3,18)	0.103 (2,62)	0.133 (3,38)
8863-0150-XX	0.130 (3,30)	0.107 (2,72)	0.138 (3,51)
8863-0160-XX	0.139 (3,53)	0.114 (2,90)	0.147 (3,73)
8863-0165-XX	0.150 (3,81)	0.123 (3,12)	0.158 (4,01)
8863-0170-XX	0.160 (4,06)	0.131 (3,33)	0.168 (4,27)
8863-0175-XX	0.216 (5,49)	0.177 (4,50)	0.227 (5,77)
8863-0180-XX	0.250 (6,35)	0.205 (5,21)	0.260 (6,60)

### O-Strip Tubing



Part No.	Nominal Dimensions	
	O.D.	I.D.
8864-0100-XX	0.125 (3,18)	0.045 (1,14)
8864-0105-XX	0.156 (3,96)	0.050 (1,27)
8864-0110-XX	0.250 (6,35)	0.125 (3,18)
8864-0120-XX	0.312 (7,92)	0.192 (4,88)
8864-0125-XX	0.375 (9,53)	0.250 (6,35)
8864-0130-XX	0.437 (11,10)	0.250 (6,35)
8864-0090-XX	0.090 (2,29)	0.050 (1,27)
8864-0095-XX	0.103 (2,62)	0.040 (1,02)
8864-0101-XX	0.125 (3,18)	0.062 (1,57)
8864-0104-XX	0.145 (3,68)	0.070 (1,78)

### Hollow D-Strips



Part No.	Nominal Dimensions			
	W	A	B(rad.)	C
8866-0100-XX	0.156 (3,96)	0.078 (1,98)	0.078 (1,98)	0.045 (1,14)
8866-0105-XX	0.187 (4,75)	0.093 (2,36)	0.093 (2,36)	0.050 (1,27)
8866-0110-XX	0.250 (6,35)	0.125 (3,18)	0.125 (3,18)	0.065 (1,65)
8866-0115-XX	0.312 (7,92)	0.156 (3,96)	0.156 (3,96)	0.062 (1,57)
8866-0120-XX	0.312 (7,92)	0.200 (5,08)	0.112 (2,84)	0.062 (1,57)
8866-0125-XX	0.487 (12,37)	0.080 (2,03)	0.244 (6,20)	0.080 (2,03)