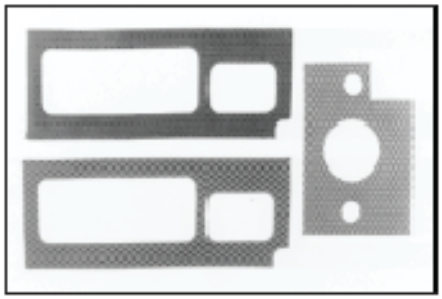
METALASTIC and PORCUPINE METALASTIC

EMI Gasketing with Pressure Seal



METALASTIC
EMI Gasketing with Pressure Seal
Parker Chomerics METALASTIC gasketing is a composite EMI and pressure seal in thin sheet form. Shielding is provided by a woven aluminium mesh, and pressure sealing is achieved by neoprene, silicone or fluorosilicone elastomer impregnated in the mesh. METALASTIC gasketing is intended for use only in applications in which joint unevenness is less than 0.002 in. (0.05 mm), and/or where space is severely limited. The material can be easily cut into gaskets of intricate shapes, and is available with a minimum nominal thickness of 0.016 in. (0.40 mm). These gaskets are not intended to be re-used after joints are opened.

PORCUPINE METALASTIC
EMI Gasketing with Pressure Seal
PORCUPINE METALASTIC is available in two forms: EMI shielding with pressure seal filled and EMI shielding only (un-filled). Shielding is provided by severely expanded Monel or Aluminium foil. For composite shielding and pressure sealing, the expanded Monel is filled with a silicone or fluorosilicone elastomer. The material gains its excellent compressibility from very uniform thickness. The expanded Monel provides dozens of contact points per square inch of surface area, assuring moderate shielding effectiveness.

PORCUPINE METALASTIC gasketing is intended for applications in which joint unevenness is less than 0.003 in. (0.08 mm) and where the gasket must be less than 4 x 6 in. (102 x 152 mm). These gaskets are not intended to be re-used after joints are opened.

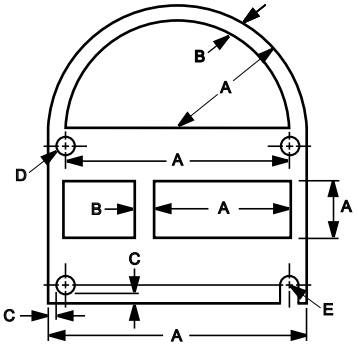
STANDARD MATERIAL SPECIFICATIONS				
	ELASTOMERS		METALS	
Gasketing Types	Silicone* Solid	Neoprene* Solid	Aluminium	Monel
PORCUPINE METALASTIC® (expanded monel in elastomer)	A-A-59588 Class 2B Grade 50	-	QQ-A-250/2 3003 AL	QQ-N-281 (expanded)
METALASTIC® (woven aluminium in elastomer)	A-A-59588 Class 2B Grade 50	AMS-3222	Alloy 5056 AMS-4182	-

* Temperature Ranges:
Silicone-solid, PORCUPINE & METALASTIC gasketing: (A-A-59588 Class 2B Grade 50), –65° to +500°F (–54° to +260°C).
Neoprene-solid, METALASTIC gasketing: AMS-3222, –65° to +500°F (–54° to +260°C).

Ordering Information

Sheet gasketing: Order by part number from **Table 1 or 2**. All METALASTIC sheets are 8.0 in. wide (20.32 cm), and PORCUPINE METALASTIC sheets are 12 in. (30.4 cm) wide. Both are supplied in continuous lengths. Custom die-cut gaskets: Specify material from the table by part number and submit a drawing. For gaskets exceeding standard width, a miter or ovetail joint is recommended. For additional assistance, contact HITEK Electronic Materials.

Dimensions for METALASTIC and PORCUPINE METALASTIC Die-Cut Gaskets



(Fully dimensioned drawings required)

METALASTIC GASKET TOLERANCES inches (mm)	
DiMENSIONS	Tolerances
A 0-4.000 (0-102) > 4.000 (> 102)	±0.015 (±0.38) ±0.030 (±0.76)
B Min. Width	0.125 (3.18)
C Min. Wall Thickness	0.080 (2.03)
D Slot	If min. wall thickness **C** cannot be accommodated, holes should be changed to slots.

PORCUPINE METALASTIC GASKET TOLERANCES inches (mm)	
DiMENSIONS	Tolerances
A 0-4.000 (0-102) > 4.000 (> 102)	±0.015 (±0.38) ±0.030 (±0.76)
B Min. Width	0.140 (3.56)
C Min. Wall Thickness	0.090 (2.28)
D Slot	If min. wall thickness **C** cannot be accommodated, holes should be changed to slots.

Table 1

METALASTIC SHEETS inches (mm)				
Thickness	Material	Filled	Width	Part No,
0.016 ±0.004 (0.40 ±0.10)	Aluminium	Silicone	8.00 +0.25 -0.00 (203 +6.35 -0.00)	04-0502
	Aluminium	Fluorosilicone		04-1802
	Aluminium	Neoprene		04-0602
0.020 ±0.004 (0.51 ±0.10)	Aluminium	Silicone		04-0102
	Aluminium	Fluorosilicone		04-1802
	Aluminium	Neoprene		04-0202

Table 2

PORCUPINE METALASTIC SHEETS inches (mm)				
Thickness	Material	Filled	Width	Part No,
0.020 ±0.004 (0.51 ±0.10)	Monel	No	12.00 ±0.25 (305 ±6.35)	08-0601
	Monel	Silicone		08-0201
	Monel	Fluorosilicone		08-1701
	Aluminium	No		08-0602
	Aluminium	Silicone		08-0202
	Aluminium	Fluorosilicone		08-1702
0.030 ±0.004 (0.76 ±0.10)	Monel	No		08-0501
	Monel	Silicone		08-0101
	Monel	Fluorosilicone		08-1001
	Aluminium	No		08-0502
	Aluminium	Silicone		08-0102
	Aluminium	Fluorosilicone		08-1002

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