

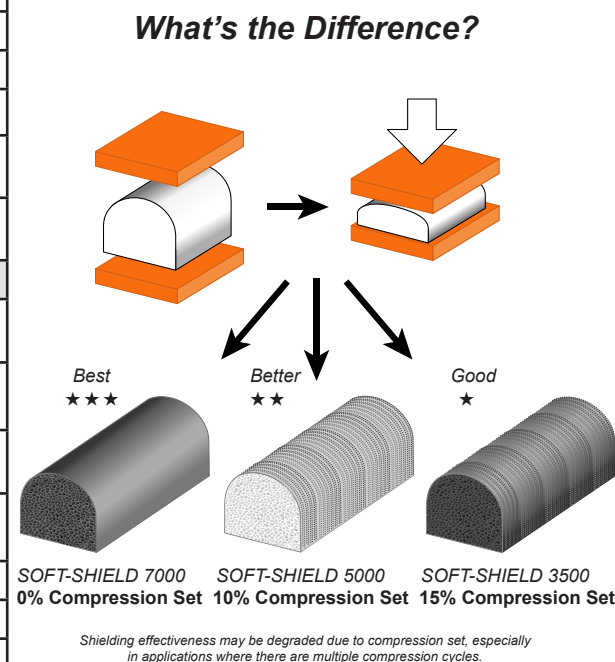
SOFT-SHIELD® Low Closure Force EMI Gaskets - Selector Guide



Table 1 - Typical Properties for Strip Gaskets

Product Scope	SOFT-SHIELD 7000	SOFT-SHIELD 5000	SOFT-SHIELD 3500
Product Forms	SQ, REC., D and Custom	SQ, REC., D, C, P, L and Custom	SQ, REC., D, C, P, L and Custom
Typical Applications	Doors, Panels, Seams, Faceplates, Ground Pads		
Method of Manufacture	Dispensed foam	Dispensed foam	Wrapped foam
Jacket Material	Ni/Ag Plated rip-stop Nylon	Ni/Ag Plated rip-stop Nylon	Ni/Cu Plated Taffeta Polyester
Foam	High Performance Silicone Foam	High Performance Urethane Foam	Standard performance Urethane Foam
Attachment Method (PSA)	Non conductive*, high temp, high tack, closed cell, acrylic PSA	Non conductive*, high temp, high tack, closed cell, acrylic PSA	Non conductive*, closed cell, acrylic PSA
Performance Ratings			
Baseline EMI Shielding	★★★ 90 dB+	★★★ 90 dB+	★★ 80 dB+
Shielding Effectiveness After Cycling	★★★ Best	★★ Better	★ Good
Softness	★ Good	★★ Better	★★★ Best
Compression Set (Figure 1) ASTM D395 - Method B	70°C - 0 % 125°C - 0 %	70°C - 10%	70°C - 25%
Operating Temp (Max.)	125°C	70°C	70°C
UL Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0
RoHS Compliant	Yes	Yes	Yes

Figure 1 - Compression Set



*PSA typically covers less than 50% of contact area. Upon compression the conductive fabric will make direct contact to the interface.

Application:

SOFT-SHIELD 7000 - Designed where the gasket sees high level of compression cycles and/or greater than 70°C environment.

SOFT-SHIELD 5000 - Designed where the gasket sees moderate level of compression cycles over product life.

SOFT-SHIELD 3500 - Designed where the gasket sees minimal level of compression cycles over product life.

- ★ = Good
- ★★ = Better
- ★★★ = Best

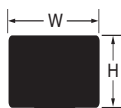
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SOFT-SHIELD® Strip Gasket Profiles - Selector Guide



Rectangle Profiles

Height mm (inch)	Width mm (inch)	3500 Profiles	5000 Profiles	7000 Profiles	PSA Size (inch)
0.51 (0.020)	3.99 (0.157)	3268	--	--	0.078
0.51 (0.020)	3.99 (0.157)	--	74039	--	0.084
0.51 (0.020)	10.00 (0.394)	3232	--	--	0.197
0.51 (0.020)	23.50 (0.925)	3442	--	--	.078 x 2
0.99 (0.039)	3.00 (0.118)	3211	--	--	0.078
0.99 (0.039)	3.99 (0.157)	3214	74020	74020	0.084
0.99 (0.039)	5.00 (0.197)	--	74003	--	0.1
0.99 (0.039)	5.00 (0.197)	3217	--	--	0.118
0.99 (0.039)	7.01 (0.276)	3224	--	--	0.118
0.99 (0.039)	7.01 (0.276)	--	74038	74038	0.125
0.99 (0.039)	8.00 (0.315)	3230	--	--	0.157
0.99 (0.039)	10.01 (0.394)	--	74004	--	0.188
0.99 (0.039)	10.01 (0.394)	3233	--	--	0.197
0.99 (0.039)	13.00 (0.512)	3392	--	--	0.236
0.99 (0.039)	18.01 (0.709)	3420	--	--	0.236
0.99 (0.039)	23.50 (0.925)	3455	--	--	.078 x 2
1.19 (0.047)	10.01 (0.394)	3234	--	--	0.197
1.27 (0.050)	33.50 (1.32)	3434	--	--	0.118 x 2
1.50 (0.059)	3.99 (0.157)	3370	--	--	0.078
1.50 (0.059)	3.99 (0.157)	--	74035	74035	0.084
1.50 (0.059)	5.00 (0.197)	3219	--	--	0.118
1.50 (0.059)	10.00 (0.394)	3426	--	--	0.197
1.50 (0.059)	13.00 (0.512)	3241	--	--	0.236
1.52 (0.060)	3.00 (0.118)	3418	--	--	0.078
1.52 (0.060)	6.99 (0.275)	3226	--	--	0.157
1.52 (0.060)	10.01 (0.394)	3389	--	--	0.197
1.52 (0.060)	10.01 (0.394)	3426	--	--	0.197
1.52 (0.060)	17.02 (0.670)	3471	--	--	0.236
1.57 (0.062)	5.08 (0.200)	--	74040	--	0.1
1.77 (0.070)	14.00 (0.550)	--	74034	--	0.475
1.98 (0.078)	3.00 (0.118)	3101	--	--	0.078
1.98 (0.078)	3.99 (0.157)	3104	--	--	0.078
1.98 (0.078)	5.99 (0.236)	3120	--	--	0.078
1.98 (0.078)	8.00 (0.315)	3136	--	--	0.157
2.01 (0.079)	3.99 (0.157)	--	74002	74002	0.084
2.01 (0.079)	5.00 (0.197)	3109	--	--	0.118
2.01 (0.079)	7.01 (0.276)	3133	--	--	0.118
2.01 (0.079)	7.01 (0.276)	--	74005	74005	0.125

Height mm (inch)	Width mm (inch)	3500 Profiles	5000 Profiles	7000 Profiles	PSA Size (inch)
2.01 (0.079)	9.00 (0.354)	--	74066	--	0.188
2.01 (0.079)	10.01 (0.394)	--	74025	74025	0.188
2.01 (0.079)	10.01 (0.394)	3151	--	--	0.197
2.01 (0.079)	12.00 (0.472)	3164	--	--	0.236
2.01 (0.079)	15.01 (0.591)	3187	--	--	0.236
2.01 (0.079)	21.01 (0.827)	3248	--	--	0.078 x 2
2.01 (0.079)	21.00 (0.827)	--	74049	--	0.375
2.01 (0.079)	25.00 (0.984)	3402	--	--	.118 x 2
2.29 (0.090)	2.54 (0.100)	3435	--	--	0.078
2.49 (0.098)	5.00 (0.197)	3110	--	--	0.118
2.49 (0.098)	13.00 (0.512)	3335	--	--	0.236
2.49 (0.098)	20.98 (0.826)	3249	--	--	0.375
2.49 (0.098)	22.10 (0.870)	--	74102	74102	0.375
3.00 (0.118)	3.00 (0.118)	--	74018	74018	0.07
3.00 (0.118)	3.99 (0.157)	3106	--	--	0.078
3.00 (0.118)	4.01 (0.158)	--	74048	74048	0.084
3.00 (0.118)	10.01 (0.394)	3153	--	--	0.197
3.05 (0.120)	40.89 (1.610)	3424	--	--	N/A
3.18 (0.125)	6.35 (0.250)	--	74023	74023	0.125
3.18 (0.125)	9.53 (0.375)	3148	--	--	0.157
3.18 (0.125)	9.53 (0.375)	--	74000	--	0.188
3.18 (0.125)	12.70 (0.500)	3173	--	--	0.236
3.18 (0.125)	20.32 (0.800)	--	74001	74001	0.375
3.18 (0.125)	47.00 (1.850)	3439	--	--	.118 & 236
3.18 (0.125)	50.80 (2.000)	3472	--	--	N/A
3.20 (0.126)	4.80 (0.189)	3108	--	--	0.118
3.20 (0.126)	6.40 (0.252)	3128	--	--	0.118
3.20 (0.126)	25.40 (1.000)	3421	--	--	0.118
3.30 (0.130)	4.83 (0.1900)	--	74015	--	0.1
3.30 (0.130)	12.70 (0.500)	--	74012	74012	0.25
3.51 (0.138)	5.00 (0.197)	3298	--	--	0.118
3.51 (0.138)	13.00 (0.512)	3336	--	--	0.236
3.51 (0.138)	21.00 (0.826)	3469	--	--	0.375
3.98 (0.157)	10.00 (0.394)	3154	--	--	0.197
3.99 (0.157)	4.00 (0.157)	3107	--	--	0.078
3.99 (0.157)	6.35 (0.250)	3129	--	--	0.118
3.99 (0.157)	9.00 (0.354)	3318	--	--	0.197
4.06 (0.160)	14.66 (0.577)	3423	--	--	0.078
5.00 (0.197)	5.00 (0.197)	3113	--	--	0.118
5.00 (0.197)	8.00 (0.315)	3139	--	--	0.157
5.00 (0.197)	10.00 (0.394)	3156	--	--	0.157

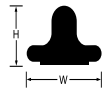
Height mm (inch)	Width mm (inch)	3500 Profiles	5000 Profiles	7000 Profiles	PSA Size (inch)
5.00 (0.197)	15.01 (0.591)	3190	--	--	0.236
5.08 (0.200)	5.08 (0.200)	--	74017	74017	0.084
5.11 (0.201)	7.59 (0.299)	--	74054	--	0.125
6.00 (0.236)	5.99 (0.236)	3126	--	--	0.118
6.00 (0.236)	5.99 (0.236)	--	74022	74022	0.125
6.00 (0.236)	6.00 (0.236)	3126	--	--	0.118
6.35 (0.250)	9.53 (0.375)	3149	--	--	0.157
6.35 (0.250)	9.53 (0.375)	--	74016	74016	0.188
6.35 (0.250)	12.70 (0.500)	3174	--	--	0.236
6.35 (0.250)	12.70 (0.500)	--	74014	74014	0.250
6.38 (0.251)	6.38 (0.251)	3270	--	--	0.118
6.40 (0.250)	9.50 (0.374)	3149	--	--	0.157
6.48 (0.255)	13.00 (0.512)	3338	--	--	0.236
7.01 (0.276)	7.01 (0.276)	3300	--	--	0.118
7.01 (0.276)	10.01 (0.394)	3323	--	--	0.197
7.01 (0.276)	13.00 (0.512)	3339	--	--	0.236
8.00 (0.315)	8.60 (0.394)	3159	--	--	0.197
8.00 (0.315)	10.01 (0.394)	3313	--	--	0.157
8.99 (0.354)	3.48 (0.137)	3145	--	--	0.197
9.40 (0.370)	6.35 (0.250)	3299	--	--	0.157
9.51 (0.375)	9.53 (0.375)	3150	--	--	0.157
9.52 (0.375)	2.54 (0.100)	3463	--	--	0.157
9.53 (0.375)	9.53 (0.375)	--	74024	74024	0.188
9.53 (0.375)	12.70 (0.500)	3175	--	--	0.236
9.53 (0.375)	12.70 (0.500)	--	74021	--	0.25
10.01 (0.394)	10.01 (0.394)	3161	--	--	0.157
10.50 (0.413)	13.00 (0.512)	3342	--	--	0.236
12.70 (0.500)	12.70 (0.500)	3176	--	--	0.236
12.70 (0.500)	12.70 (0.500)	--	74028	--	0.250
13.00 (0.512)	10.01 (0.394)	3162	--	--	0.197
14.99 (0.590)	10.01 (0.394)	3529	--	--	0.197
15.90 (0.626)	3.20 (0.126)	3195	--	--	0.126
17.50 (0.689)	3.40 (0.134)	3557	--	--	0.118
16.99 (0.669)	12.70 (0.500)	3532	--	--	0.197
19.05 (0.750)	40.01 (1.575)	3142	--	--	0.375
20.00 (0.787)	19.05 (0.750)	3527	--	--	0.197
22.00 (0.866)	19.99 (0.787)	3223	--	--	0.375
25.40 (1.00)	19.05 (0.750)	9009	--	--	0.375
28.96 (1.140)	30.00 (1.181)	3544	--	--	0.375
34.92 (1.375)	19.05 (0.750)	3486	--	--	0.375



Height mm (inch)	Width mm (inch)	3500 Profiles	5000 Profiles	7000 Profiles	PSA Size (inch)
1.52 (0.060)	3.81 (0.150)	--	74037	74037	0.05
1.52 (0.060)	3.81 (0.150)	3607	--	--	0.078
1.78 (0.070)	6.35 (0.250)	--	74081	74081	0.188
1.91 (0.075)	3.81 (0.150)	3674	--	--	0.078
2.01 (0.079)	5.00 (0.197)	3610	--	--	0.118
2.01 (0.079)	10.00 (0.394)	3628	--	--	0.197
2.29 (0.090)	2.28 (0.090)	--	74019	--	0.07
2.29 (0.090)	2.31 (0.091)	3601	--	--	0.078
2.29 (0.090)	3.81 (0.150)	3648	--	--	0.078
2.29 (0.090)	3.81 (0.150)	--	74031	74031	0.084
2.54 (0.100)	6.35 (0.250)	3671	--	--	0.118
2.80 (0.110)	5.71 (0.225)	3669	--	--	0.118
2.54 (0.100)	6.35 (0.250)	--	74053	--	0.125
2.74 (0.108)	3.81 (0.150)	--	74052	74052	0.07
2.79 (0.110)	5.71 (0.225)	--	74055	--	0.125
2.79 (0.110)	9.65 (0.380)	--	74074	74074	0.188
3.00 (0.118)	3.81 (0.150)	3608	--	--	0.078
3.00 (0.118)	8.99 (0.354)	3622	--	--	0.157
3.05 (0.120)	3.81 (0.150)	--	74013	74013	0.07
3.05 (0.120)	6.35 (0.250)	--	74036	74036	0.1
3.05 (0.120)	6.35 (0.250)	3651	--	--	0.118
3.18 (0.125)	9.53 (0.375)	3624	--	--	0.197
3.18 (0.125)	2.29 (0.090)	--	74032	--	0.05
3.30 (0.130)	4.78 (0.188)	3682	--	--	0.078
3.40 (0.134)	6.50 (0.256)	3616	--	--	0.118
3.56 (0.140)	6.35 (0.250)	--	74006	74006	0.125
3.56 (0.140)	6.35 (0.250)	--	90115	--	0.156
3.56 (0.140)	9.65 (0.380)	--	74058	74058	0.188
3.61 (0.142)	6.40 (0.252)	3650	--	--	0.118
3.99 (0.157)	3.81 (0.150)	3666	--	--	0.078
3.94 (0.155)	6.35 (0.250)	--	74056	--	0.125
3.99 (0.157)	3.81 (0.150)	--	74041	74041	0.07
3.99 (0.157)	5.99 (0.236)	3649	--	--	0.118
3.99 (0.157)	5.99 (0.236)	--	74030	74030	0.125
4.50 (0.177)	9.98 (0.393)	3631	--	--	0.197
4.57 (0.180)	10.16 (0.400)	--	74033	74033	0.188

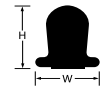
D-Profiles Continued

Height mm (inch)	Width mm (inch)	3500 Profiles	5000 Profiles	7000 Profiles	PSA Size (inch)
4.98 (0.196)	4.98 (0.196)	3611	--	--	0.118
6.35 (0.250)	6.35 (0.250)	3662	--	--	0.118
6.35 (0.250)	9.53 (0.375)	3626	--	--	0.157
6.35 (0.250)	9.53 (0.375)	--	74011	74011	0.188
9.53 (0.375)	12.70 (0.500)	3643	74029	--	0.25



T-Shape Profiles

Height mm (inch)	Width mm (inch)	3500 Profiles	5000 Profiles	7000 Profiles	PSA Size (inch)
3.80 (0.152)	6.35 (0.250)	--	90057	--	0.162



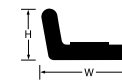
Omega Profiles

Height mm (inch)	Width mm (inch)	3500 Profiles	5000 Profiles	7000 Profiles	PSA Size (inch)
7.62 (0.300)	4.57 (0.180)	--	74047	--	0.157
9.52 (0.375)	6.86 (0.270)	--	74079	--	NA



"Stealth" D-Profiles

Height mm (inch)	Width mm (inch)	3500 Profiles	5000 Profiles	7000 Profiles	PSA Size (inch)
2.03 (0.080)	7.62 (0.300)	3856	--	--	0.078x2
2.03 (0.080)	12.7 (0.500)	3844	--	--	0.118x2
2.03 (0.080)	17.15 (0.675)	--	74059	74059	0.125x2
2.54 (0.100)	7.62 (0.300)	3840	--	--	0.078x2
2.54 (0.100)	9.98 (0.393)	--	74101	74101	0.070x2
3.048 (0.120)	10.16 (0.400)	3890	--	--	0.078x2
3.048 (0.120)	10.16 (0.400)	--	74095	74095	0.084x2
3.40 (0.134)	15.88 (0.625)	3850	--	--	0.118x2
3.40 (0.134)	15.88 (0.625)	--	74084	74084	0.125x2
3.56 (0.140)	12.7 (0.500)	3839	--	--	0.118x2
4.00 (0.160)	12.7 (0.500)	3891	--	--	0.118x2
5.46 (0.215)	12.7 (0.500)	3894	--	--	0.118x2



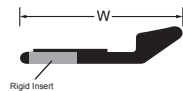
L-Shape Profiles

Height mm (inch)	Width mm (inch)	3500 Profiles	5000 Profiles	7000 Profiles	PSA Size (inch)
4.00 (0.157)	6.53 (0.257)	3846	--	--	0.118
10.01 (0.394)	15.00 (0.590)	3849	--	--	0.197
14.00 (0.551)	14.99 (0.590)	--	74069	--	0.157
14.00 (0.551)	15.01 (0.591)	--	74051	--	0.25



C-Fold Profiles

Height mm (inch)	Width mm (inch)	3500 Profiles	5000 Profiles	7000 Profiles	PSA Size (inch)
5.99 (0.236)	5.99 (0.236)	3848	--	--	0.118
8.00 (0.250)	7.11 (0.280)	--	74057	--	0.125
8.00 (0.315)	8.00 (0.315)	3803	--	--	0.118
8.00 (0.315)	8.00 (0.315)	3843	--	--	0.118
9.71 (0.385)	10.67 (0.420)	--	74008	--	0.188
9.80 (0.386)	10.70 (0.421)	3806	--	--	0.196
11.81 (0.465)	10.69 (0.421)	3901	--	--	0.197
11.81 (0.465)	10.67 (0.420)	--	74027	--	0.188
17.15 (0.675)	14.73 (0.580)	3807	74010	--	0.250



Knife-Edge Profiles

Height mm (inch)	Width mm (inch)	3500 Profiles	5000 Profiles	7000 Profiles	PSA Size (inch)
1.56 (0.062)	8.14 (0.320)	3893	--	--	0.118
2.54 (0.100)	12.70 (0.500)	3810	--	--	0.197
2.69 (0.106)	11.30 (0.445)	3826	--	--	0.236
2.69 (0.106)	11.30 (0.445)	3837	--	--	0.236
2.69 (0.106)	11.30 (0.446)	--	74007	--	0.250



P-Shape Profiles

Height mm (inch)	Width mm (inch)	3500 Profiles	5000 Profiles	7000 Profiles	PSA Size (inch)
3.30 (0.130)	13.21 (0.520)	3816	--	--	0.236
3.30 (0.130)	13.21 (0.520)	--	74009	--	0.250
4.2 (0.165)	13.21 (0.520)	3895	--	--	0.118
4.2 (0.165)	13.21 (0.520)	3895	--	--	0.236

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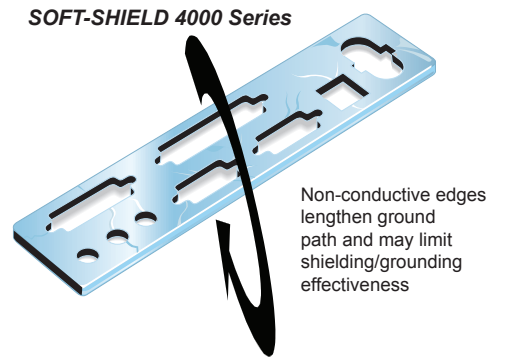
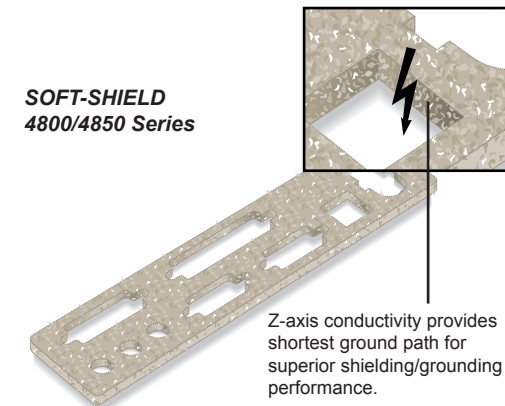
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SOFT-SHIELD® Low Closure Force EMI Gaskets - Selector Guide

Table 2 - Typical Properties for Sheet Gaskets

Product Scope	SOFT-SHIELD 4850	SOFT-SHIELD 4800	SOFT-SHIELD 4002	SOFT-SHIELD 4004	SOFT-SHIELD 4005
Product Forms	Rolled or Die Cut parts Up to 24" Wide	Rolled or Die Cut parts Up to 24" Wide	Machine Wrapped Strips or Die Cut parts 1/2"-6" Wide	Machine Wrapped Strips or Die Cut parts 1/2"-6" Wide	Machine Wrapped Strips or Die Cut parts 1/2"-6" Wide
Typical Applications	I/O, Connectors, Back plane				
Method of Manufacture	Fiber impregnation	Fiber impregnation	Jacket Wrapped	Jacket Wrapped	Jacket Wrapped
Jacket Material	Ag plated fiber	Ag plated fiber	Fabric Reinforced Aluminum Foil	Fabric Reinforced Aluminum Foil	Ni/Ag Plated Taffeta Nylon
Foam	Urethane	Urethane	PORON® Urethane	PORON® Urethane	PORON® Urethane
Attachment Method (PSA)	Non conductive "Pattern" acrylic PSA	Non conductive "Pattern" acrylic PSA	Conductive acrylic PSA	Conductive acrylic PSA	Conductive acrylic PSA
Performance Ratings					
Baseline EMI Shielding	*** 95 dB+	*** 95 dB+	*** 90 dB+	*** 90 dB+	*** 90 dB+
Shielding Effectiveness After Cycling	*** Best	*** Best	** Better	** Better	** Better
Softness	** Better	** Better	*** Best	*** Best	*** Best
Compression Set ASTM D395 - Method B	*** Best	*** Best	** Better	** Better	** Better
Operating Temp (Max.)	70°C	70°C	70°C	70°C	70°C
UL Rating	UL 94 V-0	UL HF1	UL 94 V-0	UL 94 HB	UL 94 HB
RoHS Compliant	Yes	Yes	Yes	Yes	Yes



SOFT-SHIELD 4000 SERIES ORDERING INFORMATION:

WWW-XXX-YYYY-ZZZZ

WWW - Material (4002, 4004, 4005)
 XXX - Thicknesses (012 = 1.2mm)
 YYYY - Width (0127 = 12.7mm)
 zzzz - Length (2540 = 254mm)

For custom die-cut parts, use the part number WWWWXXX-L0000, for which Chomerics will assign the actual drawing number L0000. Note: Fully-wrapped (360°) custom gaskets are not available in SOFT-SHIELD 4002 or 4004 materials.

SOFT-SHIELD 4800/4850 ORDERING INFORMATION:

**4800-XX-YYYY-ZZZZ
 OR
 4850-XX-YYYY-ZZZZ**

XX- 10 no PSA or 11 with PSA
 YYYY- Width (maximum 610mm)
 ZZZZ- Thickness (ex. 0150 = 1.5mm)

For custom die-cut parts, contact Inside Sales

THICKNESS STANDARDS:

- 1mm (0.039")
- 1.5mm (0.060")
- 2mm (0.078")
- 3mm (0.118")
- 4mm (0.157")
- 5mm (0.197")

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