

SEM introduces **DYNAGREEN™**, the Halogen Free version of its famous **DYNASHEAR™** EMI shielding gaskets for Card / Cage applications that is able to offer superior features over metal fingerstocks and current fabric-over-foam gaskets.

DYNAGREEN™ insures maximum shielding even at low compression by means of its unique design and offers one of today's best ratios of compression vs. load due to its ultra – soft open cell urethane foam.

DYNAGREEN™ decreases the impact of your product on the environment.

DYNAGREEN™ makes your product to comply with the forthcoming new environmental policies.

DYNAGREEN™ allows you to smoothly upgrade your existing design to Halogen Free compliance.

Schlegel Electronic Materials, leader on the EMI shielding gasket industry, developed a new flame retardant formulation providing EMI shielding gaskets with UL94 – V0 grade (Underwriters Laboratories Inc.) and Halogen Free according to IEC 61249-2-21 (≤ 900 ppm Chlorine, ≤ 900 ppm Bromine and 1500 ppm max for both). This new SEM unique formulation will not modify the physical and electrical characteristics of standard **DYNASHEAR™** gaskets such as compression forces, compression set or shielding effectiveness. Therefore, any existing **DYNASHEAR™** profile can be upgraded to its Halogen Free **DYNAGREEN™** counterpart with no requalification making easy the retrofit of existing design. **DYNAGREEN™** is currently available with SEM highly conductive flexible fabrics NiCu-C70 and NiCu-C12.

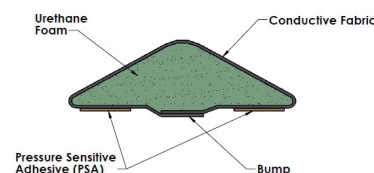
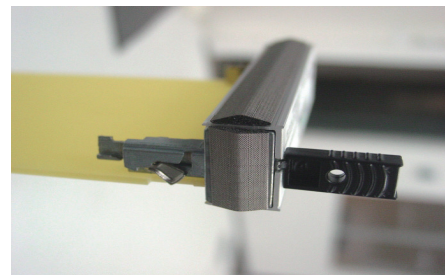
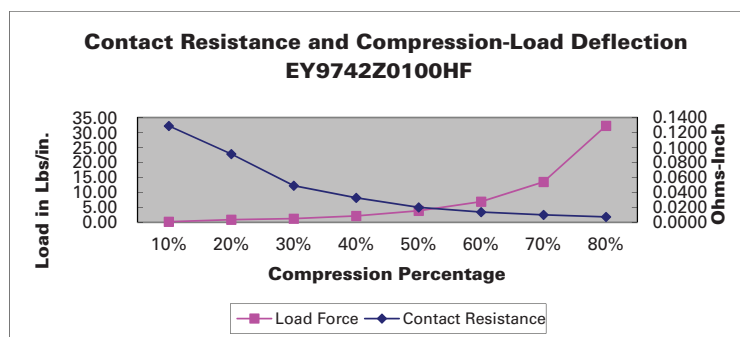


Figure 1. Contact Resistance and Compression Load Deflection Analysis



TECHNICAL SPECIFICATIONS

CHARACTERISTIC	SPECIFICATION	TEST METHOD
Shielding Effectiveness	96 dB average (20 MHz – 10 GHz): NiCu-C70 97.4 dB average (20 MHz – 10 GHz): NiCu-C12	MIL DTL 83528C
Compression Force	2.13 lbs–inch @ 40% *(refer to Fig 1)	
Contact Resistance	0.03 ohm–inch @ 40% *(refer to Fig 1)	
Compression Set	15.1% (compressed 50% for 22 hrs at 70°C)*	
Compression Range	1 – 80%	
Surface Resistance	<= 0.066 ohms/sq.: NiCu-C70 <= 0.024 ohms/sq.: NiCu-C12	ASTM F390
Contact Resistance at 1kg load	<0.11 ohm–inch : NiCu-C70 <0.08 ohm–inch : NiCu-C12	SEM LP – 3001
Operating Temperature	-40°C to +70°C	ASTM D3574
Abrasion resistance	>= 800,000 cycles: NiCu-C70 >= 1,000,000 cycles: NiCu-C12	ASTM D 3886
Flame Retardant	UL 94 V0	UL Standard
Compliance	RoHS and WEEE Compliance	2011 / 65 / EU (RoHS 2.0) 2002 / 96 / EC (WEEE)
Halogen Content	<= 900 ppm Chlorine & <= 900 ppm Bromine & 1500 ppm max for both	IEC 61249-2-21 / EN 14852B

* Result measured on **DYNAGREEN™ EY9742Z0100HF** – the technical specification data is based on SEM tests and analysis that we believe to be reliable. However, in no event, shall SEM be liable for inaccuracies or omissions contained therein. In all cases, details and values should be verified by the customer.

DYNAGREEN™ PART NUMBERS

Height Width	1.5 mm	2.0 mm	2.3 mm	2.7 mm	3.0 mm	3.3 mm	3.5 mm	3.8 mm
6mm	EY37n2ZxxxxHF	EK97n2ZxxxxHF	EQ67n2ZxxxxHF	EQ77n2ZxxxxHF	E2S7n2ZxxxxHF	EQ87n2ZxxxxHF	E2W7n2ZxxxxHF	EQ97n2ZxxxxHF
8mm	EY47n2ZxxxxHF	EV37n2ZxxxxHF	EP17n2ZxxxxHF	EU87n2ZxxxxHF	E2T7n2ZxxxxHF	EV67n2ZxxxxHF	E2X7n2ZxxxxHF	EV77n2ZxxxxHF
10mm	EY57n2ZxxxxHF	EJ87n2ZxxxxHF	EJ97n2ZxxxxHF	EK17n2ZxxxxHF	E2P7n2ZxxxxHF	EK27n2ZxxxxHF	E2R7n2ZxxxxHF	EK37n2ZxxxxHF
12.7mm	EY27n2ZxxxxHF	EK47n2ZxxxxHF	EK57n2ZxxxxHF	EK67n2ZxxxxHF	E2U7n2ZxxxxHF	EK77n2ZxxxxHF	E2Y7n2ZxxxxHF	EK87n2ZxxxxHF
17mm	EY67n2ZxxxxHF	EY77n2ZxxxxHF	EV87n2ZxxxxHF	EY87n2ZxxxxHF	E2V7n2ZxxxxHF	EY97n2ZxxxxHF	E3B7n2ZxxxxHF	E1A7n2ZxxxxHF

n: specifies the fabric type (3: NiCu-C70, 4: NiCu-C12), xxxx: specifies length in the form xx.xx".
Standard parts supplied with wide release liner, PSA: 2 strips of adhesive is standard.
Standard height for untaped and uncompressed parts.