

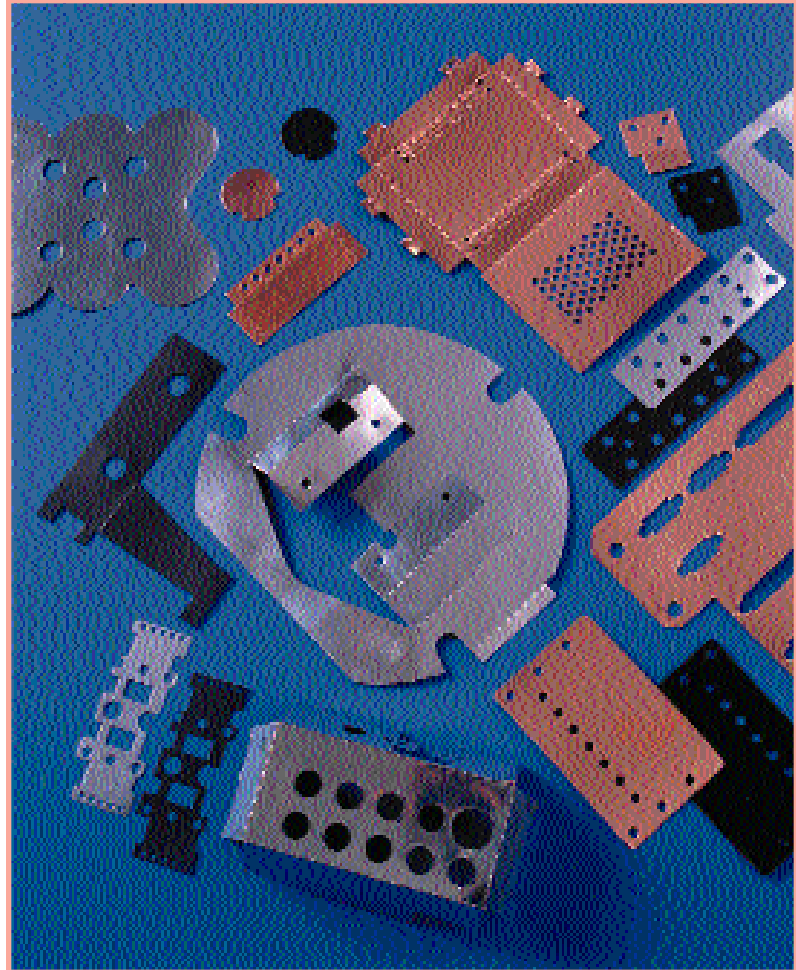
EM-X700 Series

Product Data

DESCRIPTION:

ORION's EM-X700 series of high performance EMI/RFI Shielding Laminates offers superior shielding characteristics and excellent formability, while maintaining excellent insulating and dielectric characteristics. The EM-X700 series of materials offers UL 1950 and UL 746 C performance down to a total thickness of 0.014". These materials use G.E. Lexan® FR-700 as their insulating substrate.

ORION's EM materials are available in combinations with a variety of shielding metals. Their excellent dielectric strength and formability make them the ideal choice for a wide range of electrical and electronic applications. Their increased thickness and stiffness provide additional structural integrity to the finished part.



Potential Applications include:

- PC Board Level Shielding
- Business Equipment Shielding
- Connector Bar Shielding
- Total Enclosure Shielding
- TV/Monitor Shielding
- Keyboard Shielding
- Power Supply Shielding
- Large Dissipation Planes
- Component Wrapping
- Ground Straps

CONFIGURATION:

Film Color: Black
 Insulating Layer Finish: Matte or Polish
 Standard Roll Widths: up to 48" wide
 Standard Gauges (insulating layer): 0.010", 0.017", 0.030"
 Available Foils: Aluminum, Copper, Tin Plated Copper (SnCu)
 Standard Gauges (Foil): 0.002", 0.005"

ORION holds two patents on EMI shield designs

Prototypes Within 24 Hours

ORION's EM-X700 series of shielding laminates have been tested to the following standards: UL94, UL1950. The table below summarizes our UL listing for this series of materials.

Component - Insulating Devices and Materials, Miscellaneous

**ORION INDUSTRIES INCORPORATED
ONE ORION PARK DRIVE, AYER, MASSACHUSETTS 01432**

**E184188 (R)
(B card)**

Mtl Dsg	Col	Foil Type	Foil Thickness	Nom Thk (In.)	UL94 Flame* Class	RTI All Properties
Polycarbonate (PC) - clad aluminum, copper or tin-plated copper .						
EM-1710	BK	Al	0.002	0.014	94V-0	50
EM-2710	BK	Cu	0.002	0.014	94V-0	50
EM-3710	BK	SnCu	0.002	0.014	94V-0	50
EM-4710	BK	Al	0.005	0.017	94V-0	50
EM-5710	BK	Cu	0.005	0.017	94V-0	50
EM-6710	BK	SnCu	0.003	0.015	94V-0	50

Marking: Company name and material designation on container or wrapper.

See General Information Preceding These Recognitions.

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

In addition to the UL listings that our EM series of materials received. Orion Industries Incorporated is proud to state that our facility has been registered by Underwriters Laboratories Inc. to the International Organization for Standardization, ISO 9002 Standard for Quality.

For additional information, questions, or samples:



**call: (978) 772-6000
or fax: (978) 772-0021**

O R I O N I N D U S T R I E S I N C O R P O R A T E D

One Orion Park Drive • Ayer, MA 01432 USA • Tel: 978.772.6000 • Fax 978.772.0021 • www.orionind.com

EMI/RFI Shielding Laminates • Insulators • Seals and Gaskets • Screens • Precision Die Cutting • Laminating • Adhesives • Screen Printing/Hot Stamping

The ULregistered firm mark and the ULrecognized component mark are registered trademarks of Underwriters Laboratories Incorporated. Lexan is a registered trademark of General Electric Plastics. **ORION** is a registered trademark of Orion Industries Incorporated.

Inasmuch as OrionIndustries Incorporated has no control over the use to which others may put this material, it does not guarantee that the same results as those described herein will be obtained. Nor does OrionIndustries Incorporated guarantee the effectiveness or safety of any possible or suggested design for articles of manufacture as illustrated herein by any photographs, technical drawings and the like. Each user of the material or design or both should make his own tests to determine the suitability of the material or any material for the design, as well as the suitability of the material or design or both for his own particular use. Statements concerning possible or suggested uses of the materials or designs described herein are not to be construed as constituting a license under any ORION patent covering such use or as recommendations for use of such materials or designs in the infringement of any patent.