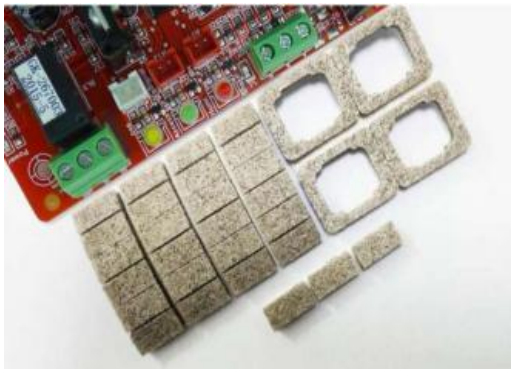
Omni-SHIELD Super: OS6000 High Performance Conductive Foam

Product Introduction

OS6000 is the super version of Nystein Omni-Shield family. OS6000 is an X-Y-Z axis conductive foam that designed for indoor applications with EMI or grounding requirements. The unique and uniform integration of electrically conductive silver-plated fibers into a low-density poly-urethane foam provide a high performance EMI shielding solution. It offers greater EMI shielding performance with an ultimate short grounding path.
OS6000 also offers exceptional mechanical properties, the unique integration process kept base foam properties un-changed. OS6000 has a UL 94 V-0 flammability rating and is available in configurations such as bulk rolls, cut sheets, strip gaskets or custom die cut shapes. An electrically conductive acrylic pressure sensitive adhesive (PSA) is available on one side for ease of assembly.

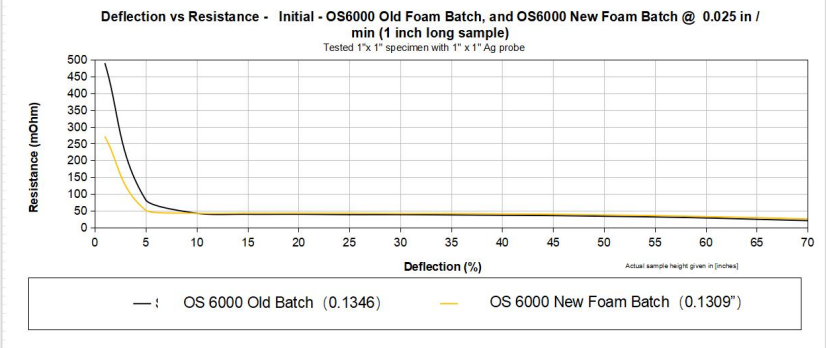
Features and Benefits

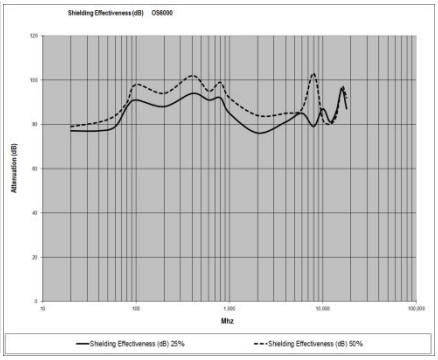
- >95dB shielding effectiveness from 20MHz to 10GHz
- Excellent Z-axis conductivity, <30mohms @25% compression
- Excellent mechanical properties, compression set <15%
- Z-axis conductivity offers good compartmental shielding
- UL94 V0 flammability rated
- Optional conductive PSA
- Low conversion cost, high-speed die-cut compatible
- RoHs, REACH compliant



Typical Properties

Typical Properties	OS6000	Test Method
Compression Load (lb/in)	<1	ASTM C165
Compression Set	15%	ASTM D3574
Working Temperature (°C)	-40~70	-
Shielding Effectiveness	100dB	NYS-SE03
Through Resistance	<50mohm	1"X1" sample
FR Rate	UL94 V-0	-
Bulk Form	Roll	-
Conductive Path	X-Y-Z	-
Conductive Element	Ag	-
PSA Peel Strength (oz/inch)	15	ASTM D1000





Typical Applications

- Telecom Infrastructure rack and enclosure
- Servers and desktop laptop PCs
- LCD/LED displays
- I/0 panels, backplanes, connectors, access panels

Product Configuration

- Available in thickness 1mm/2mm/3mm/4mm/5mm
- Available in sheets, rolls, and custom die-cut shapes upon customer request.
- Optional adhesive backing: conductive adhesive, thermal adhesive, or pressure-sensitive adhesive (PSA).

Storage Conditions

- Packaged in carrier tape; store at room temperature in a sealed, light-protected, and dry place.
- Optimal storage conditions: 23±2°C, 65±5%RH (store in the original packaging), with a shelf life of 18 months.
- Materials removed after opening may become contaminated during use. Do not mix contaminated products with unopened ones. Our company is not liable for contaminated products or storage conditions beyond the required specifications.
- For additional information, please contact your dedicated sales representative, technical support, or customer service personnel in a timely manner.

Cautions：
The information provided in the Technical Data Sheet (TDS) (including product use and application recommendations) is based on our knowledge and experience of Kleber products. The data contained in this TDS is for reference only and is considered reliable. We cannot be held responsible for the results of others as a result of methods beyond our control. This product can have a variety of different applications and different working conditions in your environment, which is beyond our control. Therefore, Kleber assumes no responsibility for whether the product is suitable for your production process and conditions as well as the expected applications and results. We strongly recommend that you test the product before use to confirm the applicability of the product.

KLEBER
Shanghai：Room 601, Building 14, Youxi International High tech Park, No. 58 Wenxiang East Road, Songjiang District, Shanghai
+86 021-60709499
Dongguan：Building F, Yizhong Science and Technology Park, No. 3 Jinsha 2nd Road, Jinshadun Industrial Zone, Shuikou Village, Dalang Town, Dongguan City
+86 0769-82236901
Vietnam：Zone DI,Green IP-I Industrial Park,Yantian Town, Tairui District,TaipingProvince
USA：8 The Green, Suite A, Dover, Delaware
www.kleber-newmaterial.com