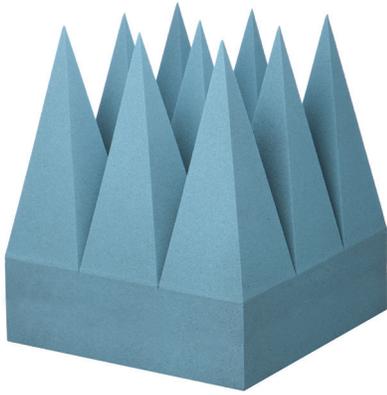


ABSORBER MODEL EMC-24PCL



MODEL EMC-24PCL

- 80 MHz – 40 GHz Frequency Range
- Ultra Broadband Performance
- Ideal for New or Retrofit Chamber Installations
- Non-Hygroscopic Substrate
- Designed for MIL-STD-461D/E/F, and RTCA-D0-160 Testing
- 0.5 Watt/in² or 775 Watt/m² CW Power Handling
- 90°C Maximum Service Temperature
- Fire Retardant: Meets NRL 8093 Tests 1,2, & 3, MIT MS-8-21, UL 94, and DIN 4102-B2
- FlexSorb™ option available

ETS-Lindgren's EMC-24PCL EMC Absorber is an ultra broadband microwave absorber which has been optimized for EMC applications. Its design is an evolution of traditional pyramidal polyurethane absorber and combines carefully balanced dielectric properties with a special geometry that is suited for low frequency operation.

Power Handling

EMC-24PCL has excellent power handling capability. This absorber has been proven to safely withstand up to 775 W/m² (0.5 Watt/in²) CW power density (540 V/m) in RF and microwave frequency ranges.

For periods less than 10 minutes in duration, the absorber can safely handle up to 2650 W/m² (1.7 W/in²) power density (1000 V/m).

After curing, the foam is precision cut into a pyramidal configuration and coated for appearance. Fifteen individual quality assurance checks take place during production.

Features

Ultra-Broadband Performance

During the manufacturing process, our unique two-step impregnations are specially formulated to provide improved reflectivity performance below 200 MHz. This tuning is verified on each absorber piece in a large coaxial reflectometer which measures reflectivity vs. frequency from 20 MHz to 300 MHz to ensure consistency of performance.

Maximum Service Temperature

Max. service temperature is 90°C (194°F, continuous).

Fire Retardant

This absorber meets NRL 8093 Tests 1, 2, 3, MIT MS-8-21, UL 94, and DIN 4102-B2: Tests for Flammability. EMC-24PCL has an ASTM E84-84 flame-spread index of 35 and a smoke developed index of 450.

New or Retrofit Chamber Installation

EMC-24PCL anechoic absorber can easily be installed into either new construction, or as a retrofit to existing chambers.

Non-Hygroscopic Substrate

EMC-24PCL absorber is produced from a fire-resistant chemical formula that is non-hygroscopic. As a result, the absorber is not affected by moisture and will maintain its mechanical and RF performance over the life of the product.

Performance Standards

This absorber meets or exceeds MIL-STD-461 and RTCA-D0-160 performance requirements and is ideal for new installations or chamber retrofits. It provides an ultra broadband performance range of 80 MHz – 40 GHz.

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Optional FlexSorb™ Treatment

ETS-Lindgren's optional FlexSorb covering is engineered to provide enhanced protection and durability for absorber installations in active test environments while preserving critical RF performance. Applied over absorber surfaces, FlexSorb helps protect against mechanical wear from foot traffic, airflow, dust accumulation, and incidental contact during routine testing and maintenance. The flexible, lightweight material conforms closely to absorber geometry, maintaining absorber shape and effectiveness without introducing meaningful measurement degradation.

FlexSorb has little to no impact on RF performance at frequencies below 18 GHz, with only minimal performance variation observed at higher frequencies. In addition to extending absorber service life, FlexSorb supports improved safety and cleanliness within EMC and wireless test chambers, making it well suited for high-use laboratories where long-term performance, reliability, and reduced maintenance are essential.

Technical Specifications

Electrical	
Frequency Minimum	80 MHz
Frequency Maximum	40 GHz
Power Handling (CW)	0.5 Watt/in ²
Physical	
Length	61.0 cm (24.0 in)
Width	61.0 cm (24.0 in)
Height	61.0 cm (24.0 in)
Weight	4.1 kg (9.0 lb)
Fire Retardant	NRL 8093 Tests 1,2 , & 3, MIT MS-8.21, UL 94 & DIN 4102-B2