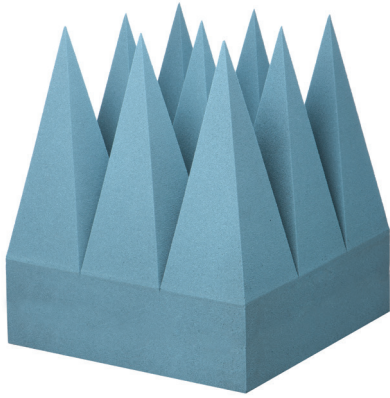


ABSORBER MODEL EMC-24PCL



MODEL EMC-24PCL

- Frequency Range: 80 MHz to 40 GHz
- 1.0 W/in² or Greater Power Handling Capability (Dependent Upon Frequency and Duration)
- Maximum Service Temperature: 90°C (194°F)
- Fire Retardant: Meets NRL 8093 Tests 1,2, & 3, MIT MS-8-21, UL 94, and DIN 4102-B2
- Designed for MIL-STD-461G/H, and RTCA-D0-160 Testing
- Non-Hygroscopic Substrate
- FlexSorb™ Option Available

ETS-Lindgren's EMC-24PCL EMC Absorber is an ultra broadband microwave absorber which has been optimized for EMC applications. Ideal for new or retrofit chamber installation, 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.

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.

Power Handling

EMC-24PCL has excellent power handling capability of 1.0 W/in² or greater, dependent upon frequency and duration.

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.

Performance Standards

This absorber meets or exceeds MIL-STD-461G/H and RTCA-D0-160 performance requirements and is ideal for new installations or chamber retrofits.

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.

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.

ABSORBER MODEL EMC-24PCL

Technical Specifications

Electrical

Frequency Minimum	80 MHz
Frequency Maximum	40 GHz
Power Handling (CW)	1.0 W/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