

POLYSTYRENE HYBRID ABSORBER DSH-750EP DuraSorb™ Polystyrene Hybrid Absorber

ETS-Lindgren's DSH-750EP (Enhanced Power) Absorber is the latest evolution of ETS-Lindgren's volumetrically loaded polystyrene absorber technology. It combines the advantages of the proven polyurethane based absorber performance with the physical properties of the polystyrene absorbers. DuraSorb is constructed using substrates with rigid, closed cell foams, which are loaded volumetrically and uniformly throughout the absorbers. DSH-750EP is ideal for antenna measurements and military standards testing.

Key Features

- 80 MHz to 40 GHz Frequency Range
- Non-Hygroscopic Substrate
- Durable Construction, Precision Installation Design

Features

Frequency Range

The DSH-750EP provides a superior performance from 80 MHz to

microwave frequencies. As a result of its optimized design, high

performance is guaranteed, both at lower frequency bands and

frequencies above 1 GHz.

Durable Construction

DuraSorb is manufactured by injecting uniformly loaded lossy

materials in predetermined geometric shapes to produce the

desired performance. After the lightweight substrates have

been molded, they are shipped disassembled to job-sites for

reduced shipping volume. Easily assembled at the site, finished

absorbers are pressed and glued into a lightweight polystyrene

universal mounting base on the walls and ceiling of

This method assures absorber rows are aligned with geometric

precision. DSH-750EP measures 75 cm (29.5 in) height in pyramid shape.

Non-Hygroscopic Fire Resistant

DuraSorb is intrinsically non-hygroscopic due to its closed

cell design. Furthermore, DuraSorb is engineered to have

outstanding fire resistance. The material is treated additionally

with environmentally friendly fire retardants beyond what is

normally required for construction grade foams. DuraSorb

material has been tested to meet the requirements of UL94 HBF

and DIN 4102 B2.

Specifications

Electrical Specifications

Frequency	80 MHz to 40 GHz
Power Handling	200 V/m (CW)
	600 V/m (5 minutes)*

* Plane wave illumination, under room temperature 23°C

Physical Specifications

Height: 75 cm (29.5 in)

Product Charts

Frequency	Typical Reflectivity*
80MHz	< -6 dB
120MHz	< -8 dB
200MHz	< -20 dB
300MHz	< -25 dB
500MHz	< -35 dB
1 - 2 GHz L-Band	< -45 dB
2 - 4 GHz S Band	< -45 dB
4 - 8 GHz C Band	< -45 dB
8 - 12 GHz X Band	< -45 dB
18 - 40 GHz K-Band	< -45 dB

* Reflectivity is based on simulation data.