

D-Foam PP2

Low loss, low dielectric, low density foam

Overview/Product Description:

HEM D-Foam PP2 is a closed cell polyethylene foam featuring low loss, a low dielectric constant and low density. This makes the HEM D-Foam PP2 ideal for use as a dielectric substrate.

It is transparent to electromagnetic energy which makes it ideal as a covering or for RF transparent radomes.

HEM D-Foam PP2 is closed cell and this keeps water absorption rates very low, it is weather resistant and does not degrade or crack when exposed to UV light.

HEM D-Foam PP2 can be used in many electrical and microwave applications as well as a spacer in antenna applications. The HEM D-Foam PP2 is lightweight, extremely flexible, conformable and returns to its normal thickness after compression. This product can be easily cut and shaped with a sharp knife.



Key Features:

- Low loss
- Low density
- Lightweight
- Weather resistant
- Resistant to UV light
- Easily cut and shaped
- Available with acrylic PSA

Typical Characteristics:

Colour	White
Thickness	3.18mm*
Sheet Size	2m x 1m
Hardness	8.0 (Shore A)
Density	1.8 - 2.2 (lb/ft ³)
Dielectric Constant	1.02 (ASTM D-150)
Composition	Low loss closed cell foam
Loss Tangent	0.0017 (ASTM D-150)
Shelf Life	Indefinite

*Other thicknesses available on request, tolerance $\pm 0.6\text{mm}$

Typical Applications:

Ideal for use as a dielectric substrate; such as in (but not exclusively) electrical and microwave applications. I.e. As a spacer in antenna applications and covering for RF transparent radomes.

Please contact HITEK for bespoke sizes and applications.

This information and values are considered as typical and are not intended as guaranteed.

Use this data as a guide only. HITEK do not assume responsibility or liability for the results obtained by others over whose methods we cannot control. Suitability for production is entirely the responsibility of the user and they must adopt any precautions as may be necessary to the protection of people and property. HITEK Electronic Materials Ltd specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose arising from the sale of this product. HITEK Electronic Materials Ltd specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.

HITEK Electronic Materials Limited, 15 Wentworth Road, South Park Industrial Estate,
Scunthorpe, North Lincolnshire, DN17 2AX
United Kingdom