

ECCOSTOCK® PP

FLEXIBLE, LOW LOSS, CLOSED CELL FOAM

Description :

Eccostock PP is a closed cell, cross-linked hydrocarbon resin foam with low loss, low dielectric, and low density. Due to the low dielectric constant, the material is essentially transparent to electromagnetic energy. Dielectric constant does not change with frequency and change with temperature is negligible.

Dissipation factor is below 0.0003 at frequencies from 60 Hz to 10 GHz.

Excellent thermal insulation.

Eccostock PP is lightweight and will return to its normal thickness after being compressed.

It can be heat sealed to form blocks of material or to make contoured pieces that can be draped over complex objects.

Eccostock PP is tough and weather resistant.

Applications :

Eccostock PP can be used as radomes, blankets, and coverings where radar transparency is desired. It can also be used in a variety of electrical and microwave applications.

It has been used as a spacer in antenna applications.

Typical Properties:

	PP-2	PP-4
Colour	White	White
Service Temperature °C	93	93
Compression Strength, kPa @ 25%, (kPa @ 50%)	35(100)	70(150)
Compression Set (% of original thickness)	28	16
Hardness, Shore A	7	15
Loss Tangent	0.0001	0.0001
Dielectric Constant	1.03	1.06
Density, kg/m ³	32	64
Tensile Strength, kg/cm ²	2.5	5.5
Elongation, %	220	290
Thermal Conductivity (W / m.K)	0.040	0.042
Water Absorption, g/cm ² of cut surface	0.02	0.02

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Availability

Eccostock PP is available in two densities, 32 kg/m³ and 64 kg/m³.
It is designated as Eccostock PP-2 and Eccostock PP-4.

Standard sheets are 610 x 610 mm with thickness of 0.32 and 0.64 cm (1/8" and 1/4").
*Note: Eccostock PP-4 is only available in 1.6 mm (1/16") thickness.

Other sheet sizes are available upon request



Safety Considerations : It is recommended to consult the EMERSON & CUMING MICROWAVE PRODUCTS product literature, including material safety data sheets, prior to use EMERSON & CUMING MICROWAVE PRODUCTS products. These may be obtained from your local sales office.

WARRANTY : Values shown are based on testing of laboratory test specimens and represent data that falls within the normal range of properties of the material. These values are not intended for use in establishing maximum, minimum or ranges of values for specification purposes. Any determination of the suitability of the material or any use contemplated by the user and the manner of such use is the sole responsibility of the user who must assure that the material as subsequently processed meets the needs of this particular product or use. We hope the information given here will be helpful. It is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification but we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale INCLUDING THOSE LIMITING WARRANTIES AND REMEDIES which apply to all goods supplied by us. We assume no responsibility for the use of these statements, recommendations or suggestions nor do we intend them as a recommendation for any use which would infringe any patent or copyright.

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