



32 Mechanic Avenue Unit 211 • Woonsocket RI 02895

Tel.401-767-2269

Fax 401-767-255

www.microsorbtech.com•

E-mail: engineer@microsorbtech.com

**Product
Bulletin**

900-01

MICROSORB D-PP

**LOW DIELECTRIC, LOW LOSS CLOSED CELL FOAM,
FLEXIBLE**

GENERAL DESCRIPTION

MICROSORB D-PP is a light-weight, low-loss, closed cell hydrocarbon resin foam that can be used for a variety of microwave applications. It is provided in three dielectric constants, from 1.03 to 1.15. The loss tangent is < 0.0003 at frequencies up to 10 GHz. The dielectric properties do not change over frequencies.

MICROSORB D-PP foams are tough, weather resistant and has low water absorption.

MICROSORB D-PP has been used in numerous applications such as radomes, coverings, multi-layered circuit boards, polarizers and RF spacers. It is used when radar transparency is needed.

APPLICATION

MICROSORB D-PP can be die-cut or water-jet according to drawings. It is easily cut with a sharp blade. Provide your drawings and we will provide you with finished parts, ready to use.

MICROSORB offers the application of Pressure Sensitive Adhesive (PSA) and metal backing (ML). Consult Microsorb's Customer Service for additional details and assistance.

SIZES

MICROSORB D-PP is offered in sheet form, from 12" x 12" to 48 x 60". Special sizes are available.

SPECIFICATIONS

MICROSORB D-PP GRADE	K'	K"	Density lbs/ft ³	Thickness inches
D-PP-2	1.03	< 0.0001	2	0.0625" 0.125" 0.250" 0.375" 0.50"
D-PP-4	1.06	< 0.0001	4	0.031" 0.125"
D-PP-6	1.10	< 0.0002	6	0.031"

❖ Other thickness may be available. Contact Microsorb Customer Service for assistance.

MICROSORB D-PP GRADE	D-PP-2	D-PP-4	D-PP-6
Tensile Elongation, psi (kgm/cm ²)	35 (2.5)	80 (5.6)	110 (7.7)
Elongation, %	220	290	310
Thermal Conductivity (BTU)(in)/ (hr) (ft ²)(°F) (cal)(cm)/(sec)(cm ²)(°C)	0.28 0.000096	0.30 0.00010	0.32 0.00011
Maximum Temperature, °F (°C)	200 (93)	200 (93)	200 (93)

T Warranty: This information is, to the best of Microsorb Technologies knowledge, accurate as of the date indicated. This information relates only to the specific materials designated herein and is not intended for the application or use of the materials with any other materials or in any process. The information is intended as a general guide only and does not constitute a warranty or representation whatsoever and MICROSORB TECHNOLOGIES HEREBY DISCLAIMS ALL EXPRESS AND IMPLIED WARRANTIES ARISING FROM THE USER'S RELIANCE ON OR USE OF THIS INFORMATION.
Rev 2 042407