

LAST-A-FOAM® DIELECTRIC MATERIALS



General Plastics offers a wide range of LAST-A-FOAM® products for use as dielectric material in radome and antenna applications. These high-performance, closed-cell polyurethane foams do not absorb water and may be provided in custom densities to satisfy customers' specific dielectric performance requirements. The materials exhibit ideal dielectric properties, structural strength, durability and chemical inertness.

Our products display non-dispersive and low-loss properties, where dielectric performance can be guaranteed at every frequency range. Certificates of performance can be supplied upon request.

The following tables list the dielectric properties of LAST-A-FOAM® products that may be used for your dielectric applications. For more information on each product and additional densities, please contact us at (866) 825-1378 or email us at sales@generalplastics.com.

DIELECTRIC PROPERTIES OF LAST-A-FOAM® RF-2200

PROPERTIES	RF-2203	RF-2204	RF-2206
Density (lbs./ft3)	3	4	6
Dielectric Constant (2-20 GHz)	1.068	1.082	1.114
Loss Tangent	0.001	0.001	0.0013

RF-2200 Features:

- Available in custom densities engineered to specified dielectric performance
- Processing temperature up to 350°F
- Resistant to water uptake

DIELECTRIC PROPERTIES OF LAST-A-FOAM® FR-3700

PROPERTIES	FR-3703	FR-3706	FR-3720
Density (lbs./ft3)	3	6	20
Dielectric Constant (2-20 GHz)	1.062	1.117	1.380
Loss Tangent	0.0004	0.001	0.0045

FR-3700 Features:

- Flame-retardant PU foam available in 3 to 40 pcf
- Processing temperature up to 260°F
- High strength-to-weight ratio

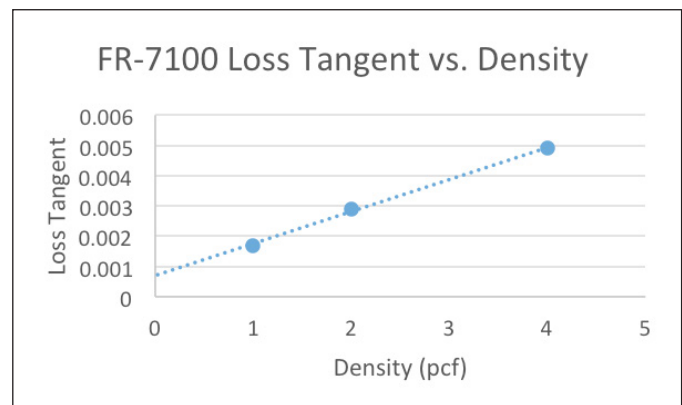
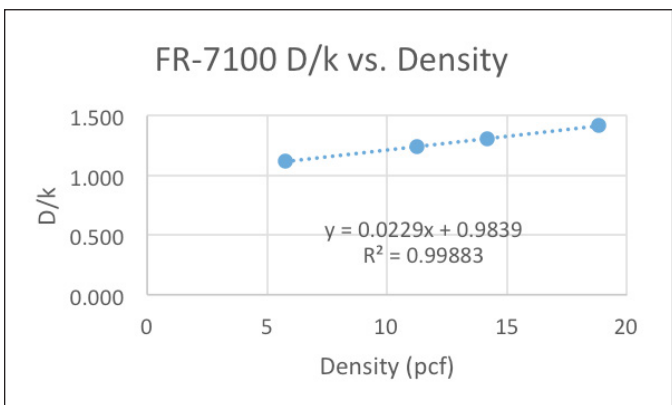
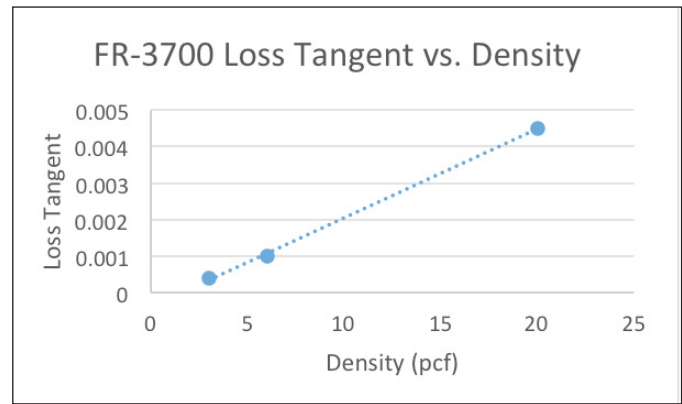
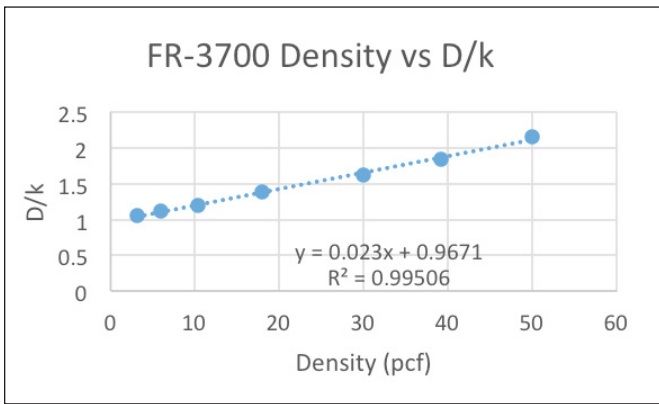
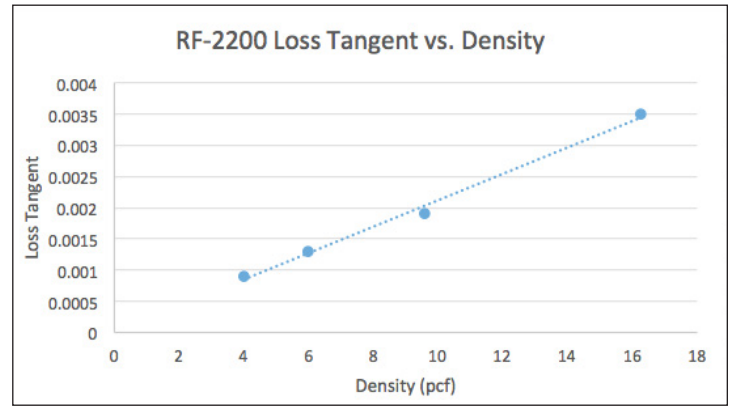
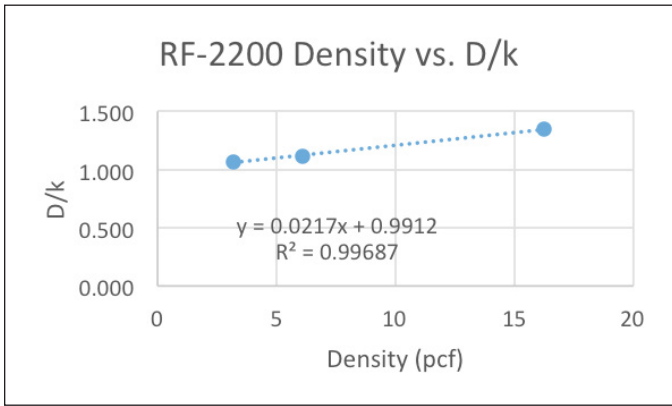
DIELECTRIC PROPERTIES OF LAST-A-FOAM® FR-7100

PROPERTIES	FR-7106	FR-7112	FR-7120
Density (lbs./ft3)	6	12	20
Dielectric Constant (2-20 GHz)	1.119	1.238	1.420
Loss Tangent	0.0017	0.0029	0.0049

FR-7100 Features:

- Available in 3 to 40 pcf
- Processing temperature up to 175°F
- Fine cell structure supports smooth finishes

LINEAR DATA TREND FOR DIELECTRIC CONSTANT & LOSS TANGENT WITH RESPECT TO DENSITY



Test Method: Vector Electromagnetics Free Space Network Analyzer