THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

ProDome® GS

Low-loss composite for aerospace and structural applications

- ***Superhydrophobic surface prevents virtually all moisture accumulation***
- ***30% stronger than glass fiber reinforced composites***
- ***Moldable to complex shapes or sheet form for high volume applications***
- ***Formulated for ground-based satellite communication and smart cell applications***

Near lossless communication with LEO and GEO satellite systems at K-band and greater is key to support next-generation communication and data transmission technology. ProDome® GS provides a military, aircraft, and user terminal radome solution in the ground, air, and satellite-based communication systems. The composite base of ProDome® GS delivers the strength of S-Glass and the dielectric performance of Quartz glass at the price of E-Glass. ProDome® GS also has a superhydrophobic coating that prevents virtually all moisture accumulation, maximizing antenna potential.

For more information, Visit www.thegundcompany.com/prodome

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Item:	**ProDome® GS**	
Description: Availability:	ProDome® GS is a high-strength fiber reinforced laminate, bonded with a flame-resistant EM transparent resin.The material has the ability to maintain excellent mechanical, electrical and physical properties at elevated temperatures to 130°C. ProDome GS standard offering comes with a superhydrophobic coating which provides UV resitance and virtually zero water absorption. ProDome® GS from The Gund Company is UL, RoHS, and REACH certified to ensure reliability, safety, and consistency. ProDome® GS is specifically formulated for radomes in 5G, SATCOM, and IoT applications.	
	GS300 Series	ProDome® GS composite can be VARTM, compression, or autoclave molded to shape.
	GS300C Series	300C is the 300 series with a superhydrophobic coating. The coating can be applied in brush or aerosol form.

Key Characteristics	Test Method	Units	GS300	GS300C
Standard Color			Brown	White
Specific Gravity	D792		2.1	2.1
Notched Izod Impact	D256	(ft-lbs/in)	14	14
Tensile Strength Lengthwise	D638	psi	34800	34800
Tensile Elongation @ Yield	D638	%	4	4
Tensile Strength Crosswise	D638	psi	26700	26700
Tensile Elongation @ Break	D638	%	16	16
Flexural Strength	D638	psi	75000	75000
Flexural Modulus	D790	ksi	4725	4725
Dielectric Constant	D790		2.87	2.89
Loss Tangent	D150		0.005	0.005
Water Absorption	D150	%	0.1	<.001
Contact Angle		°	90	145