



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

ProDome® GP

Item:	ProDome® GP	
Description:	ProDome® GP is a fiber-reinforced polypropylene blend with additives for increased UV resistance and hydrophobicity. It offers a low dielectric constant and dissipation factor over a wide frequency range with increased mechanical and weatherability properties for long-term outdoor use. ProDome® GP is specifically formulated for radomes in 5G, SATCOM, and IoT applications.	
Availability:	GP100 Series	GP100 can be injection molded, compression molded, and machined to shape. Standard forms: Sheet, rods, and tubes. Used for medium to high volume production.
	GP300 Series	GP300 can be injection molded, compression molded, 3D printed, and machined to shape. Standard forms: Sheet, rods, and tubes. Used for prototyping, low, medium, and high volume production.

Key Characteristics	Test Method	Units	GP100T	GP115T	GP130T	GP315d
Standard Color	--	--	White	White	White	White
Specific Gravity	ASTM D792	--	1.05	1.18	1.27	1.05
Notched Izod Impact	ASTM D256	(ft-lbs/in)	0.6	0.7	0.8	0.8
Tensile Strength @ Yield	ASTM D638	psi	3,964	6,597	7,982	6,881
Tensile Elongation @ Yield	ASTM D638	%	7.3	2.4	1.5	2.7
Tensile Strength @ Break	ASTM D638	psi	3,289	6,479	7,935	6,678
Tensile Elongation @ Break	ASTM D638	%	18.3	2.6	1.6	3
Tensile Modulus	ASTM D638	psi	24,6704	62,7590	1,057,015	568,200
Flexural Strength	ASTM D790	psi	6,645	10,860	12,091	11,320
Flexural Modulus	ASTM D790	psi	222,943	511,699	940,412	483,381
Dielectric Constant @10Ghz	ASTM D150	--	2.28	2.46	2.74	2.44
Loss Tangent @ 10Ghz	ASTM D150	--	0.0007	0.0012	0.002	.0011
Contact Angle	--	--	105	105	105	100

Data supplied above are typical values and are not to be considered specification values. All of the information, suggestions and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty, expressed or implied, including, without limitation warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.