

Iten Industries

Resiten® G7 Performance Values

VALUES AND STANDARDS BASED ON .125" LAMINATE

PROPERTIES	ASTM	COND.	TYPICAL VALUES	NEMA G7 STANDARD	MIL-I-24768/17 STANDARD
Tensile Strength (psi)	D638				
Lengthwise		A	27700	N/A	N/A
Crosswise		A	20600	N/A	N/A
Flexural Strength (psi)	D790				
Lengthwise		A	25800	20000	20000
Crosswise		A	20900	18000	18000
Compressive Strength (psi)	D695				
Flatwise		A	44800	N/A	N/A
Edge Lengthwise		A	8625	N/A	N/A
Edge Crosswise		A	7330	N/A	N/A
Izod Impact (notched) (ftlb/in)	D256				
Lengthwise		E48/50	19.1	6.5	6.5
Crosswise		E48/50	14.4	5.5	5.5
Bond Strength (lbs)	D229				
(0.500" Thick)		A	1150	650	650
(0.500" Thick)		D48/50	1200	550	550
Water Absorption (%)	D570	D,24/23	0.12	0.35	0.35
Specific Gravity (gm/cc)	D792	A	1.89	N/A	N/A
Rockwell hardness (M)	D785	A	67	N/A	N/A
Flammability	UL94	A	94 V-0	94 V-0	N/A
Dielectric Strength (Vpm)	D149	A	465	N/A	N/A
Dielectric Breakdown (kV)	D149	A	70.0	32.0	32.0
		D48/50	47.0	15.0	15.0
Permittivity (1MHz)	D150	A	3.90	4.20	4.20
		D24/23	3.95	4.20	4.20
Dissipation Factor (1MHz)	D150	A	0.002	0.003	0.003
		D24/23	0.004	0.022	0.022
Arc Resistance (sec)	D495	A	246	180	
		D48/50	254	180	180

Resiten® G7 meets NEMA G7 and MIL-I-24768/17 GSG material specifications

Resiten® G7 is a high temperature glass based silicone laminate with excellent dielectric strengths, permittivity and dissipation factor. Advantages are reduced effect of properties after long durations of high temperature. material will withstand temperatures in excess of 465 degrees (F).

Sheet sizes include: (in) 36 x 48

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All values are average test results from typical production material. No warranty is implied or guaranteed and testing is recommended for each application.

