TABLE OF PROPERTIES
NON-METALLIC MATERIALS-CATALOG PRODUCTS

	Delrin	Vlucanized Fibre	Glass Epoxy G10	Glass Melamine G9	Glass Silicone G7	Kapton	PCTFE	Mica
Dielectric Strength v/mil (short time)	400-465	150-250	400	350	350-400	7000	530	3000-6000
Dielectric Constant @ 1000 kc	3.7	4-7	5.4	7.5	4.2	3.5	2.4	6.5-8.7
Power Factor @ 1000 kc	—	.03-.08	0.015	0.08	—	—	—	0.0005
Tensile Strength, psi	10,000	6,000-12,000	35,000	37,000	18,000-23,000	25,000	4600-5700	—
Shear Strength, psi	—	11,000-15,000	19,000	—	17,000	—	5800	—
Compressive Strength, psi	18,000	20,000-30,000	55,000 (Flat)	65,000 (Flat)	245,000	—	32,000-80,000	—
Elongation, %	30	—	—	—	—	70	150	—
Flexural Strength, psi	14,000	12,000-20,000	80,000 (Flat)	65,000 (Flat)	20,000-23,000	—	8200	—
Modulus of Elasticity, psi	350,000	750,000	2,200,000	2,300,000	1,200,000	—	180,000	25,000,000
Hardness	R118	R60-100	M 100	M 120	M 100	—	R113	80-150 SDH
Specific Gravity	1.42	1.0-1.5	1.8	1.9	1.7	1.42	2.1	2.6-3.2
Thermal Conductivity btu/hr/sq. ft./°F/ft	—	0.25	0.17	0.29	0.17	0.09	0.15	—
Specific Heat, btu/lb/°F	—	0.37	—	0.26	—	0.26	0.22	0.207
Resistance to Continuous Heat °F	212	212	280	300	460	750	390	1050
Water Absorbtion %	0.12	15-25	0.15	0.2	.2-.3	2.9	0.005	4.5

	Mylar	Neoprene	Nylon		Phenolic			Polyethylene (High Density)	PVC	Santoprene	Teflon
			Pure (1)	Moly-Sulfide (M)	LE	CE	XXXP				
Dielectric Strength v/mil (short time)	4000	—	385	356	225	225	325	460	425	—	480
Dielectric Constant @ 1000 kc	3	—	3.4	—	—	—	4.30 Avg.	2.3	3.4	—	2
Power Factor @ 1000 kc	0.016	—	0.04	—	5.2	5.5	3.2	<.0005	—	—	<.0005
Tensile Strength, psi	20,000	1500	10,500	12,300	10,000-14,000	9,000-12,000	13,500	3100-5500	5900-7500	640	800
Shear Strength, psi	—	—	9,600	—	11,000-15,000	11,000-15,000	7,000	—	—	—	—
Compressive Strength, psi	—	—	13,000	—	37,000 (Flat)	37,000 (Flat)	36,000 (Flat)	2500	10,000	—	1700
Elongation, %	75	300	90	5-150	—	—	—	15-100	2.0-4.0	330	800
Flexural Strength, psi	—	—	13,800	18,000	20,000 (Flat)	16,000 (Flat)	19,000 (Flat)	4000	13,000	—	—
Modulus of Elasticity, psi	—	—	400,000	575,000	1,000,000	1,000,000	1,000,000	150,000	600,000	—	58,000
Hardness	—	50-70 SHA	R115	R115	M 113	M 108	M 110	60-70 SDH	65-85 SDH	55 SDH	50-70 SDH
Specific Gravity	1.38	1.23	1.14	1.16	1.33	1.36	1.35	.941-.965	1.46	0.99	2.1-2.3
Thermal Conductivity btu/hr/sq. ft./°F/ft	0.09	—	0.14	—	0.17	0.17	0.17	—	—	—	0.15
Specific Heat, btu/lb/°F	—	—	0.4	—	0.4	0.4	—	—	—	—	0.25
Resistance to Continuous Heat °F	300	175	300	400	250	250	250	250	160	212	500
Water Absorbtion %	<.5	—	1.5	1.5	1.3	1.6	0.8	<.015	.07-.4	—	0.005

This data has been obtained from numerous sources. While it is believed to be correct, we cannot assume responsibility for its use.

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