

Redco™ PHENOLIC

PROPERTY	ASTM or UL TEST	XXX 254	LE 221	CE 51F33	400 NP315	G-3 NP504	G-5 259-2	G-7 MC507U	G-9 H12426	G-10 H22033	G-11 MC511A
PHYSICAL											
BASE MATERIAL		Paper	Fine Weave Fabric	Medium Weave Fabric	Medium Weave Fabric	Glass Cloth	Glass Cloth	Glass Cloth	Glass Cloth	Glass Cloth	Glass Cloth
RESIN		Pheno- lic	Pheno- lic	Phenolic	Phenolic	Phnolic	Melamine	Silicone	Melamine	Ероху	Ероху
COLOR		Tan	Tan	Natural	Black		Grey		Grey	Green	
DENSITY, g/cm ³	ĺ	1.34	1.34	1.37	1.4	1.83	1.9	1.82	1.9	1.85	1.85
WATER ABSORPTION (1/8" thick), %	D229	0.4	0.7 - 1.9	1.1	1.1-2.2	0.2	0.4	0.25	0.2	0.05	0.10
HARDNESS ROCKWELL "M"	D229	110	100	105	90-109	105	115	100	120	115	115
TENSILE (WITH GRAIN), psi	D229	15,000	14,000	13,000	10,000- 37,000	42,000	40,000	-	45,000	50,000	-
COMPRESSIVE (FLATWISE), psi	D229	36,000	38,000	37,000	38,000- 45,000	63,000	65,000	47,000	65,000	50,000	65,000
FLEXURAL (FLATWISE WITH GRAIN) (1/8" thick), psi	D229	20,000	22,000	19,000	19,000- 21,000	18,000	50,000	21,500	55,000	60,000	75,000
BONDING STRENGTH (1/2" thick), Ib	D229	950 - 1,200	1,800	2,000	1,800- 2,200	1,500	1,800	650	1,700 - 2,300	2,600	2,200
IMPACT STRENGTH (IZOD. EDGEWISE WITH GRAIN) (ft-lb/in. notch)	D732	0.5	1.5	1.8	1.7	11.0	10.0	13.5	13.0	10.0	10.5
ELECTRICAL											
DIELECTRIC STRENGTH (PERPENDICULAR) (1/8" thick) (VPM) (short time)	D229	600	350	200	-	375	300	350	-	550	-
DISSIPATION FACTOR (at 106cycles/sec)	D229	0.037	0.065	-	-	-	0.019	0.002	0.018	0.032	0.025
DIELECTRIC CONSTANT (at 106cycles/sec)	D229	5.2	5.1	-	-	-	6.3*	-	7.2	5.0	-
VOLUME RESISTIVITY (megohm-cm)	D229	3 x 10 ⁷	7 x 10 ⁴	-	-	-	6 x 10 ⁷	4.0 x 10 ⁸	1.5 x 10 ⁷	6 x 10 ⁶	-
SURFACE RESISTIVITY (megohms)	D229	7 x 10 ⁵	6 x 10 ⁴	-	-	-	6 x 10 ⁶	5.0 x 10 ⁸	1,5 x 10 ⁷	1 x 10 ⁶	
THERMAL											
Max. Temp (°F)		284	257	257	293	338	284	428	284	266	356

^{*} These values are for 1/2 inch thickness

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