

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	Natural		Grey		Grey	Green	
DENSITY, in³/lb		37.1	37.1	37.1	38.8	50.7	52.6	50.4	52.6	51.2	51.2
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), MPa	D229	103.4	96.5	89.6	68.9-255	290	275.8	-	310.3	344.7	-
COMPRESSIVE (FLATWISE), Mpa	D229	248.2	262	255.1	262-310	434	448.2	324	448.2	344.7	448
FLEXURAL (FLATWISE WITH GRAIN) (1/8" thick), Mpa	D229	137.9	151.7	131	131-145	124	344.7	148	379.2	413.7	517
BONDING STRENGTH (1/2" thick), Kg	D229	431 - 541	816	907	816-998	680	816	295	771 - 1040	1180	998
IMPACT STRENGTH (IZOD. EDGEWISE WITH GRAIN) (J/m. notch)	D732	26.7	80.1	96.1	90.8	587	534	721	694	534	561
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 (°C)		140	125	125	145	170	140	220	140	130	180

* These values are for 1/2 inch thickness

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