

TECHNICAL DATA SHEET

PROPERTIES	UNIT	GRADE	PAPER PHENOLIC		PAPER PHENOLIC		PAPER PHENOLIC		PAPER PHENOLIC		PAPER PHENOLIC		PAPER PHENOLIC	
		IS 2036:1995	P1	P2	P3	P4	P3	P4	P3	P4	FR 1	FR 2	P3	P4
		NEMA LI 1-1983	XP	XXP	XXXXP	XXXXP	XXXXP	XXXXP	XXXXP	XXXXP	FR 1	FR 2	FR 1	FR 2
		CREATIVE	P 1	P 2	P 3	P 4	P 3	P 4	P 3	P 4	CP 222	CP 555	CP 222	CP 555
MECHANICAL PROPERTIES		TEST APPLICABLE FOR THICKNESS	IEL AVG. VALUE	LIMITING VALUE	IEL AVG. VALUE	LIMITING VALUE	IEL AVG. VALUE	LIMITING VALUE	IEL AVG. VALUE	LIMITING VALUE	IEL AVG. VALUE	LIMITING VALUE	IEL AVG. VALUE	LIMITING VALUE
CROSS BREAKING STRENGTH	Mpa (min)	NOT LESS THAN 1.6 MM	140	130 (MIN)	140	130 (MIN)	100	85 (MIN)	100	70 (MIN)	100	90	100	70 (MIN)
TENSILE STRENGTH														
SHEAR STRENGTH	Mpa (min)	LESS THAN 1.6 MM	85	75 (MIN)	80	70 (MIN)	65	60 (MIN)	65	60 (MIN)	65	65	65	60 (MIN)
ELECTRICAL PROPERTIES														
ELECTRICAL STRENGTH (FLATWISE)	MV/m	NOT MORE THAN 3.00 MM		NA	COMPLIES	COMPLIES	COMPLIES	COMPLIES	COMPLIES	COMPLIES	COMPLIES	COMPLIES	COMPLIES	COMPLIES
ELECTRICAL STRENGTH (EDGEWISE)	KV	MORE THAN 3.00 MM			COMPLIES	20 (MIN)	COMPLIES	25 (MIN)	COMPLIES	30 (MIN)	COMPLIES	COMPLIES	COMPLIES	30 (MIN)
INSULATION RESISTANCE	M.ohms	NOT MORE THAN 25 MM	5	1 (MIN)	15	10 (MIN)	2500	1000 (MIN)	35000	30000 (MIN)	3000	40000	1000 (MIN)	30000 (MIN)
WATER ABSORPTION (1.6 MM)	mg	(ALL THICKNESS)	300	478 (MAX)	280	426 (MAX)	50	76 (MAX)	35	43 (MAX)	50	35	76 (MAX)	43 (MAX)
SPECIFIC GRAVITY	Grams/CC		1.34	1.34	1.36	1.36	1.35	1.35	1.34	1.34	1.35	1.34	1.35	1.34
FLAME RESISTANCE	Class	UL-94	N A	N A	N A	N A	N A	N A	N A	N A	V-1	V 0	V-1	V-1