

TECHNICAL DATA SHEET

PROPERTIES	UNIT	GRADE	FABRIC PHENOLIC		FABRIC PHENOLIC		FABRIC PHENOLIC		FABRIC PHENOLIC		FABRIC PHENOLIC	
		IS 2036:1995	F1		F2		F3		F4		F5	
		NEMA LI 1-1983	LE		L		C		C		CE	
		CREATIVE	F 1		F 2		F 3		F 4		F 5	
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
CROSS BREAKING STRENGTH	Mpa	NOT LESS THAN 1.6 MM	145	135 (MIN)	135	110 (MIN)	110	100 (MIN)	110	100 (MIN)	110	100 (MIN)
TENSILE STRENGTH												
SHEAR STRENGTH	Mpa	LESS THAN 1.6 MM	70	65 (MIN)	70	65 (MIN)	70	65 (MIN)	65	60 (MIN)	70	65 (MIN)
COMPRESSION STRENTH												
IMPACT STRENGTH	KJ/m ²	NOT LESS THAN 5.00 MM	8.0	6 (MIN)	10	7.2 (MIN)	10.5	8.8 (MIN)	10	7.0 (MIN)	8	6.0 (MIN)
ELECTRICAL PROPERTIES												
ELECTRICAL STRENGTH (FLATWISE)	MV/m	NOT MORE THAN 3.00 MM	COMPLIES	COMPLIES	COMPLIES	COMPLIES	COMPLIES	COMPLIES	COMPLIES	COMPLIES	COMPLIES	COMPLIES
ELECTRICAL STRENGTH (EDGEWISE)	KV	MORE THAN 3.00 MM	COMPLIES	2.0 (MIN)	COMPLIES	1.00 (MIN)	COMPLIES	1.00 (MIN)	COMPLIES	15 (MIN)	COMPLIES	20 (MIN)
INSULATION RESISTANCE	M.ohms	NOT MORE THAN 25 MM	5.00	1.00 (MIN)	4.00	0.5 (MIN)	4.00	0.5 (MIN)	100.00	50 (MIN)	180.00	150 (MIN)
WATER ABSORPTION (1.6MM)	mg	(ALL THICKNESS)	160	220 (MAX)	160	220 (MAX)	160	220 (MAX)	105	145 (MAX)	105	145 (MAX)
SPECIFIC GRAVITY	Grams/CC		1.33	1.33	1.35	1.35	1.36	1.36	1.36	1.36	1.33	1.33