



LABORATORY GRADE

TECHNICAL SPECIFICATION

Sr No	Properties	Unit	Requirement as per EN438:2005	Alfaica Conforms
1	Thickness	1 mm	(± 0.10 mm)	√
2	Length / Width	2440 x 1220 mm 3050 x 1300 mm	(± 10, - 0 mm) (± 10, - 0 mm)	√ √
3	Appearance		Should be free from foreign particles	YES
4	Density	gm / cm ³	1.41	1.45
5	Dimensional stability	% Max – “L” % Max – “T”	0.55 (max) 1.05 (max)	√ √
6	Wear Resistance	Cycles (min)	350	400
7	Resistance to dry heat @ 180°C	Grade	4	>4
8	Boiling water Resistance	Mass Increase % (max) Thickness Increase % (max)	10 11.8	8 9
9	Resistance to Steam	Grade	4	>4
10	Resistance to Cigarette Burn	Grade	3	>3
11	Resistance to Ball impact	NEMA LD3 (3.9) (mm)	900	1000

LABORATORY GRADE LAMINATES OFFERS RESISTANCE TO FOLLOWING CHEMICALS.

REMOVED IMMEDIATELY	
ACIDS	
Sulfuric Acid	96%
Nitric Acid	65%
Hydrochloric Acid	37%
Phosphoric Acid	85%
Chromic Acid	60%

ALKALIES	
Ammonium Hydroxide	30%
Sodium Hydroxide	50%
Potassium Hydroxide	5%

REMOVED AFTER 10 MINUTES	
Silver Nitrate	5%
Hydrochloric Acid	10%
Sulphuric Acid	10%
Caustic Soda	10%
Phosphoric Acid	85%
Hydrogen Peroxide	3%

REMOVED AFTER 24 HOURS	
Ammonium Chloride	10%
Barium Chloride	10%
Potassium Carbonate	10%
Potassium Chloride	10%
Sodium Carbonate	5%
Chloroform	
Benzene	
Hexane	
Carbon Tetrachloride	
Sodium Chloride	5%