



Specification Report

FIRE RETARDANT High-Pressure Decorative Laminates

FORMILINE Fire Retardant Laminates is a melamine surfaced high pressure decorative laminate specifically designed to have fire retardant properties, is designed for interior horizontal and vertical applications where a decorative surface must resist combustion and inhibit smoke production. Burning characteristics of laminate are greatly influenced by the adhesive and substrate utilized.

It is widely used for elevator linings, hospital Furniture and doors, school furniture, partitions, doors and furniture in the shipbuilding industry, public corridors and hallways.

Performance proprieties for Texture finish and 10,0 mm thickness.

Property or attribute	Standard Test method	Unit	Specification	Typical Formiline Values
<i>Ball Impact Resistance</i>	Nema LD 3-2005	mm	Min. 1900	> 1900
<i>Dimensional Change</i>	Nema LD 3 - 2005	%	MD ≤ 0,50	0,31
		%	CD ≤ 0,90	0,65
<i>Scratch Resistance</i>	Nema LD 3 – 2005	N	Rating 3 (2 – 3 N)	2,8
<i>Wear resistance</i>	Nema LD 3 - 2005	Cycles	≥ 400	> 400
<i>Appearance</i>	Nema LD 3 –2005	Rating	No ABC Defects	No ABC Defects
<i>Boiling Water Resistance</i>	Nema LD 3 - 2005	Rating	No effect	No Effect
<i>High Temperature Resistance</i>	Nema LD 3 -2005	Rating	Slight Effect	No Effect
<i>Stain Resistance</i>	Nema LD 3 – 2005	Rating	Unaffected by reagents 1-10;	No Effect
			Moderate 11-15	Slight Effect
<i>Critical Flux at extinguishment</i>	IMO Resolution A 653	KW/m ²	≥ 20,0	44,23
<i>Heat for sustained burning</i>	IMO Resolution A 653	MJ/m ²	≥ 1,5	3,14
<i>Total heat release</i>	IMO Resolution A 653	MJ	≤ 0,7	0,56
<i>Peak heat release rate</i>	IMO Resolution A 653	KW	≤ 4,0	3,18

Where:

MD = machine direction

CD = cross direction

Fire Test Data: Surface flammability of material using a radiant heat energy source BS 476 part 7.

Type	Sample Configuration	Flame Spread Index	Class
FR	Unbonded	12	1