



## Specification Report

### COMPACT GRADE – CGS High-Pressure Decorative Laminates

**FORMILINE** Compact Grade consists of layers of cellulose fibres that are impregnated with thermosetting phenolic resins and bonded by means of high pressure.

Compact Grade is manufactured for application as interior horizontal or vertical surfaces where beauty and durability are important. It provides superior mechanical properties and impact resistance in addition to its good resistance to abrasions, stains and heat. Compact Grade is produced in variety of thickness adequate to eliminate the use of a substrate.

Performance proprieties for Texture finish.

Property or attribute	Standard Test method	Unit	Specification	Typical Formiline Values	
				2,0 - 6,0 mm	> 6,0 mm
<i>Thickness</i>	Nema LD 3 - 2005	mm	-----	± 0,30	± 5%
<i>Dimensional Change</i>	Nema LD 3 – 2005	%	MD ≤ 0,30	0,30	0,16
			CD ≤ 0,70	0,62	0,38
<i>Flexural Strenght</i>	Nema LD 3 – 2005	psi	MD ≥ 18.000	23.169	26.541
			CD ≥ 12.000	18.317	20.052
<i>Módulus of Elasticity</i>	Nema LD 3 – 2005	psi	MD ≥ 1,6 x 10 <sup>6</sup>	2,48 x 10 <sup>6</sup>	2,65 x 10 <sup>6</sup>
			CD ≥ 1,4 x 10 <sup>6</sup>	1,47 x 10 <sup>6</sup>	1,75 x 10 <sup>6</sup>
<i>Ball Impact Resistance</i>	Nema LD 3 – 2005	mm	Min. 1900	>1900	
<i>Scratch Resistance</i>	Nema LD 3 – 2005	N	Rating 3 ( 2 – 4 N)	2,8	
<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	No Effect	
<i>Thermal Conductivity</i>	ASTM C 177	W/m.k	-----	0,27	
<i>Density</i>	ISO 1183	Kg/m <sup>3</sup>	1400 – 1500	1400 – 1500	
<i>Wear Resistance "Regular Compact"</i>	Nema LD 3 – 2005	Cycles	≥ 400	> 400	
<i>Wear Resistance "Colour Thru Phenolic"</i>	Nema LD 3 – 2005	Cycles	≥ 400	> 3.500	

Where: MD = machine direction      CD = cross direction

Material that is stored in the wrong position may be deformed, even permanently.

- Store the panels in a closed place where normal climatic conditions are guaranteed.
- Stack the panels on top of each other on a flat base: never stand the panels on edge. Cover the uppermost panel with a slab or sheet of polythene.
- In the event of temporary storage outside, cover the panels completely with sheets of polythene protect them against the weather.

We recommend that the panels be conditioned at the site in which they are to be assembled, to prevent warping or anomalous dimensional variations.