



Formica® High Pressure Decorative Laminates Technical Data Sheet

Formica® High Pressure Decorative Laminate is a material produced by simultaneous application of heat and pressure, in order to obtain a homogeneous non-porous high density product. The outer surface is composed of paper, impregnated with thermosetting resin and core made of layers of kraft paper, impregnated with thermosetting resin.

Technical Specification			Compact Laminate Grade		
Test Method NEMA LD3:2005	Characteristic	Unit	Criterion values	Typical Value	
	Thickness 4.0 mm 8.0 mm 13.0 mm	mm	±0.30 ±0.40 ±0.65	±0.30 ±0.40 ±0.65	
Clause 3.1	Appearance		No ABC Defect	No ABC Defect	
Clause 3.3	Light Resistance	Rating, Min	Slight Effect	No Effect	
Clause 3.4	Cleanability (Reagents 1-10) (Reagents 11-15)	Rating, Max Appearance Appearance	20 No Effect Moderate	≤20 No Effect Moderate	
Clause 3.5	Boiling Water Resistance	Rating, Min	No Effect	No Effect	
Clause 3.6	High Temperature Resistance	Rating, Min	Slight Effect	No Effect	
Clause 3.7	Resistance to scratching	Rating, Min	3	≥3	
Clause 3.8	Ball Impact Resistance (Drop Height)	mm, Min	1900	≥1900	
Clause 3.10	Radiant Heat Resistance (coil method)	Sec, Min	200	≥200	
Clause 3.11	Dimensional Change	Machine direction	%, Max	0.3	≤0.3
		Cross direction	%, Max	0.7	≤0.7
Clause 3.12	Dimensional stability	Machine direction	%, Max	0.3	≤0.3
		Cross direction	%, Max	0.7	≤0.7
Clause 3.13	Wear Resistance	Revolutions, Min	400	≥400	
ASTM D790	Flexural Strength	Machine direction	MPa, Min (psi), Min	124 (18000)	≥124 (≥18000)
		Cross direction	MPa, Min (psi), Min	82.7 (12000)	≥82.7 (≥12000)
ASTM D790	Flexural Modulus	Machine direction	MPa, Min (psi), Min	11000 (1.6x10 ⁶)	≥11000 (≥1.6x10 ⁶)
		Cross direction	MPa, Min (psi), Min	9650 (1.4x10 ⁶)	≥9650 (≥1.4x10 ⁶)
ASTM D638	Tensile Strength	Machine direction	MPa, Min (psi), Min	124 (18000)	≥124 (≥18000)
		Cross direction	MPa, Min (psi), Min	82.7 (12000)	≥82.7 (≥12000)

-Inspection items mentioned above, results of resistance to scratching are expressed as rating 1 – rating 5, the best is rating 5

Note to Formica Compact grade laminate:

-Pearlescent items are excluded from this wear resistance and resistance to scratching, must be verified separately.

Disclaimer:

The material Technical Data Sheets provide all the technical information relevant to the performance of the product as tested by certified testing body. Any information contained within this document must be verified and tested for suitability by the user for his or her particular purpose or specific application. Consideration needs to be given to local or specific circumstances. The content of this document reflects our knowledge and experience at the time of publication.