



AR Plus[®] by Formica Group

AR Plus[®] laminates (PAR grade) offer a durable, high-gloss surface finish ideal for interior vertical and horizontal applications. AR Plus technology delivers a gloss surface that is highly resistant to scuffs and mar abrasions, extending the gloss laminate lifecycle.

All other performance properties are equivalent to Formica[®] HGP grade laminate, although, due to the increased thickness of some AR Plus laminates, (solid colours and some woods and patterns in 1.2mm thickness), a minimum postforming radius of 15mm is recommended.

Characteristic	Method	Unit of Measure	HGP
Nominal Thickness		mm	0.7
Surface Defects	EN438:2005-2-4	mm ² /m ² mm/m ²	≤ 1 ≤ 10
Thickness	EN438:2005-2-5	mm	± 0.1
Length & Width	EN438:2005-2-6	mm	-0 / +10
Squareness	EN438:2005-2-7	mm/m	≤ 1.5
Edge Straightness	EN438:2005-2-8	mm/m	≤ 1.5
Flatness	EN438:2005-2-9	mm/m	≤ 60
Surface Wear Resistance	EN438:2005-2-10	revolutions	≥ 350
Immersion in Boiling Water	EN438:2005-2-12	Class	3 4 / / / / /
Resistance to Water Vapour	EN438:2005-2-14	Class	3 4
Resistance to Wet Conditions	EN438:2005-2-15	Class	/ / /
Resistance to Dry Heat (180°C)	EN438:2005-2-16	Class	3 4
Dimensional Stability	EN438:2005-2-17	%	≤ 0.55 / / ≤ 1.05 / /
Resistance to Climatic Shock	EN438:2005-2-19	Class Ds Dm	/ / /
Impact Resistance (Small Ball)	EN438:2005-2-20	N	≥ 20
Impact Resistance (Large Ball)	EN438:2005-2-21	mm mm mm	/ / /
Resistance to Cracking	EN438:2005-2-23	Class	4
Resistance to Crazing	EN438:2005-2-24	Class	/
Scratch Resistance	EN438:2005-2-25	Class	3 3
Stain Resistance	EN438:2005-2-26	Class	5 4
Light Fastness	EN438:2005-2-27	Grey Scale	4 to 5
Resistance to UV	EN438:2005-2-28	Grey Scale Class	/ /
Resistance to Artificial Weathering	EN438:2005-2-29	Class	/ / / /
Resistance to Cigarette Burns	EN438:2005-2-30	Class	3
Postforming Radius	EN438:2005-2-31	Minimum Radius mm	7
Resistance to Blistering	EN438:2005-2-33	Class	≥ 10
Density		g/cm ³	≥ 1.35
Fire Rating	(4mm ≤ thickness < 6mm) (thickness ≥ 6mm)		IMO / /

EN438 Class Definitions - Class 5 No visible change
Class 2 Marked loss of gloss and or colour

Class 4 Slight loss of gloss and or colour
Class 1 Blisters and or delamination

Class 3 Moderate loss of gloss and or colour