

Characteristic	Method	Unit of Measure	EDS	
Nominal Thickness		mm	2-20	
Surface Defects	EN438:2005-2-4 Dirt/Spots Fibres/Hairs/Scratches	mm ² /m ² mm/m ²	≤ 1 ≤ 10	
Thickness	EN438:2005-2-5	mm	# 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	# 2	
Surface Wear Resistance	EN438:2005-2-10	revolutions	/	
Immersion in Boiling Water	EN438:2005-2-12	Class	3 4 5 2 6 2	
Resistance to Water Vapour	EN438:2005-2-14	Class	3 4	
			Gloss Other	
Resistance to Wet Conditions	EN438:2005-2-15	Class	4 7 5	
Resistance to Dry Heat (180°C)	EN438:2005-2-16	Class	3 4	
			Gloss Other	
Dimensional Stability	EN438:2005-2-17	%	/	
			Longitudinal (2mm ≤ thickness < 5mm) (Thickness ≥ 5mm)	0.4 0.3
			Transverse (2mm ≤ thickness < 5mm) (Thickness ≥ 5mm)	/
				0.8 0.6
Resistance to Climatic Shock	EN438:2005-2-19	Class Ds Dm	4 0.95 0.95	
Impact Resistance (Small Ball)	EN438:2005-2-20	N	/	
Impact Resistance (Large Ball)	EN438:2005-2-21	mm mm mm	1400 1800 ≤ 10	
	Height of Fall (2mm ≤ thickness < 6mm) Height of Fall (thickness ≥ 5mm) Diameter of Imprint			
Resistance to Cracking	EN438:2005-2-23	Class	/	
Resistance to Crazing	EN438:2005-2-24	Class	/	
Scratch Resistance	EN438:2005-2-25	Class	/	
	Gloss Other		/	
Stain Resistance	EN438:2005-2-26	Class	/	
	Group 1 & 2 Group 3		/	
Light Fastness	EN438:2005-2-27	Grey Scale	4 to 5	
Resistance to UV	EN438:2005-2-28	Grey Scale Class	3 4	
Resistance to Artificial Weathering	EN438:2005-2-29	Class	/	
			Contrast (335 MJ/m ²) Contrast (650 MJ/m ²) Appearance (325 MJ/m ²) Appearance (650 MJ/m ²)	3 /
				4
				/
Resistance to Cigarette Burns	EN438:2005-2-30	Class	/	
Postforming Radius	EN438:2005-2-31	Minimum Radius mm	/	
Resistance to Blistering	EN438:2005-2-33	Class	/	
Density		g/cm ³	≥ 1.35	
R-Value (Thermal Resistance)		m ² K/W	6mm = 0.02 8mm = 0.027 10mm = 0.03	
Fire Rating	(4mm ≤ thickness < 6mm) (thickness ≥ 6mm)		D-s2, d0 / /	

#1 Compact Tolerance - Nominal Thickness 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0
Tolerance ± mm 0.2 0.3 0.3 0.4 0.4 0.4 0.5 0.5 0.5 0.5 0.6 0.6 0.6 0.6 0.7 0.7 0.7 0.7 0.7 0.8

#2 Compact Flatness - Nominal Thickness 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0
Compact Flatness 8 8 8 8 5 5 5 5 3 3 3 3 3 3 3 3 3 3 3 3

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