

Characteristic	Method	Unit of Measure	EGF	
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 7 3 9 6	
Resistance to Water Vapour	EN438:2005-2-14	Class	3 4	
			Gloss Other	
Resistance to Wet Conditions	EN438:2005-2-15	Class	4 10 8	
			Appearance Mass Increase (2mm ≤ thickness < 5mm) Mass Increase (thickness ≥ 5mm)	
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	
			Appearance Flexural Strength Index Flexural Modulus Index	
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 Crazeing	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	/	
			Contrast (1500hr) Appearance (1500hr)	
Resistance to Artificial Weathering	EN438:2005-2-29	Class	3 /	
			Contrast (335 MJ/m ²) Contrast (650 MJ/m ²) Appearance (325 MJ/m ²) Appearance (650 MJ/m ²)	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)		/	
			B-s2, d0 B-s1, 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	0.8
#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

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