

Characteristic	Method	Unit of Measure	EGS
Nominal Thickness		mm	2-20
Surface Defects	EN438:2005-2-4	mm <sup>2</sup> /m <sup>2</sup> mm/m <sup>2</sup>	≤ 1 ≤ 10
	Dirt/Spots Fibres/Hairs/Scratches		
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	
	Gloss		3
	Other		4
	Mass Increase (2mm ≤ thickness < 5mm)	%	5
	Mass Increase (thickness ≥ 5mm)	%	2
	Mass Increase (2mm ≤ thickness < 5mm)	%	6
	Mass Increase (thickness ≥ 5mm)	%	2
Resistance to Water Vapour	EN438:2005-2-14	Class	
	Gloss		3
	Other		4
Resistance to Wet Conditions	EN438:2005-2-15	Class	
	Appearance		4
	Mass Increase (2mm ≤ thickness < 5mm)		7
	Mass Increase (thickness ≥ 5mm)		5
Resistance to Dry Heat (180°C)	EN438:2005-2-16	Class	
	Gloss		3
	Other		4
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	
	Appearance	Class	4
	Flexural Strength Index	Ds	0.95
	Flexural Modulus Index	Dm	0.95
Impact Resistance (Small Ball)	EN438:2005-2-20	N	/
Impact Resistance (Large Ball)	EN438:2005-2-21		
	Height of Fall (2mm ≤ thickness < 6mm)	mm	1400
	Height of Fall (thickness ≥ 5mm)	mm	1800
	Diameter of Imprint	mm	≤ 10
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		3
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		
	Contrast (1500hr)	Grey Scale	/
	Appearance (1500hr)	Class	/
Resistance to Artificial Weathering	EN438:2005-2-29	Class	
	Contrast (335 MJ/m <sup>2</sup> )		3
	Contrast (650 MJ/m <sup>2</sup> )		/
	Appearance (325 MJ/m <sup>2</sup> )		4
	Appearance (650 MJ/m <sup>2</sup> )		/
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 <sup>3</sup>	≥ 1.35
R-Value (Thermal Resistance)		m <sup>2</sup> K/W	6mm = 0.02 8mm = 0.027 10mm = 0.03
Fire Rating	(4mm ≤ thickness < 6mm) (thickness ≥ 6mm)		C-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 0.8

#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 4 Slight loss of gloss and or colour      Class 3 Moderate loss of gloss and or colour  
Class 2 Marked loss of gloss and or colour      Class 1 Blisters and or delamination