

Characteristic	Method	Unit of Measure	BTS
Nominal Thickness		mm	1.3
Surface Defects	EN438:2005-2-4		
	Dirt/Spots	mm <sup>2</sup> /m <sup>2</sup>	≤ 1
	Fibres/Hairs/Scratches	mm/m <sup>2</sup>	≤ 10
Thickness	EN438:2005-2-5	mm	± 0.18
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	≤ 100
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)	%	/
	Mass Increase (thickness ≥ 5mm)	%	/
	Mass Increase (2mm ≤ thickness < 5mm)	%	/
	Mass Increase (thickness ≥ 5mm)	%	/
Resistance to Water Vapour	EN438:2005-2-14	Class	
	Gloss		3
	Other		4
Resistance to Wet Conditions	EN438:2005-2-15	Class	
	Appearance		/
	Mass Increase (2mm ≤ thickness < 5mm)		/
	Mass Increase (thickness ≥ 5mm)		/
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)		≤ 0.8
	(Thickness ≥ 5mm)		/
	Transverse (2mm ≤ thickness < 5mm)		≤ 1.4
	(Thickness ≥ 5mm)		/
Resistance to Climatic Shock	EN438:2005-2-19	Class	
	Appearance	Class	/
	Flexural Strength Index	Ds	/
	Flexural Modulus Index	Dm	/
Impact Resistance (Small Ball)	EN438:2005-2-20	N	/
Impact Resistance (Large Ball)	EN438:2005-2-21		
	Height of Fall (2mm ≤ thickness < 6mm)	mm	/
	Height of Fall (thickness ≥ 5mm)	mm	/
	Diameter of Imprint	mm	/
Resistance to Cracking	EN438:2005-2-23	Class	/
Resistance to Crazeing	EN438:2005-2-24	Class	/
Scratch Resistance	EN438:2005-2-25	Class	
	Gloss		2
	Other		3
Stain Resistance	EN438:2005-2-26	Class	
	Group 1 & 2		5
	Group 3		4
Light Fastness	EN438:2005-2-27	Grey Scale	4
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> )		/
	Contrast (650 MJ/m <sup>2</sup> )		/
	Appearance (325 MJ/m <sup>2</sup> )		/
	Appearance (650 MJ/m <sup>2</sup> )		/
Resistance to Cigarette Burns	EN438:2005-2-30	Class	3
Postforming Radius	EN438:2005-2-31	Minimum Radius mm	/
Resistance to Blistering	EN438:2005-2-33	Class	/
Density		g/cm <sup>3</sup>	≥ 4
Fire Rating			/
	(4mm ≤ thickness < 6mm)		/
	(thickness ≥ 6mm)		/

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