Product	deko FireSafe	Classification	Laminate type BTF 0.60 mm

Decorative high-pressure laminates (HPL) – Panels based on curable resins (laminates) – Part 9: Classification and specifications for laminates with alternative core structures; German version EN 438-9:2010

Property	Test method (EN 438-2:2005, section no.), unless otherwise specified)	Property or characteristic	Unit	Grade
				BTF
Resistance to surface abrasion	10	Abrasion resistance	Revolutions (min.) Initial abrasion point Abrasion value	 **15** **35**
Resistance to immersion in boiling water	12	Appearance	Degree (min.) Gloss surfaces Other surfaces	 **3** **4**
		Mass increase	% (max.) 2 mm>5 mm >5mm	 **5** **3**
		Thickness increases	% (max.) 2mm>5mm >5mm	 **6** **4**
Resistance to water vapor	14	Appearance	Degree (min.) Gloss surfaces Other surfaces	 **3** **4**
Resistance to dry heat	16	Appearance	Degree (min.) Gloss surfaces Other surfaces	 **3** **4**
Dimensional stability at elevated temperatures	17	Cumulative dimensional change	% (max.) <2 mm 2 mm > 5 mm	**0.8** **1.4** - -
Stress crack susceptibility (compact laminates)	2	Appearance	Degree (min.)	- -
Scratch resistance	25	Appearance	Degree (min.) Gloss surfaces Other surfaces	 **2** **4**
Stain resistance	2		Degrees (min.) Group 1-2 Group 3	 **5** **4**

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Property	Test method (EN 438-2:2005, section no.), unless otherwise specified)	Property or characteristic	Unit	Grade
				BTF
Light fastness (xenon arc lamp)	27	Contrast	Gray scale (min.	**Surface 4d** **Core 3c**
Resistance to cigarette burns	30	Appearance	Degree (min.)	**3**
Density	EN ISO 1183-1	Density	g/cm3 (min.)	**<1.1**
Flexural strength	EN ISO 178e	Stress	MPa (min.)	**-**
Flexural modulus (E)	EN ISO 178e	Stress	MPa (min.)	**-**
Tensile strength	EN ISO 527-2f	Stress	MPa (min.)	**-**

a L: in the longitudinal direction (or machine direction) of the fiber web (usually the direction of the longest dimension of the laminate).

b T: in the transverse direction (perpendicular to the machine direction) of the fiber sheet (at right angles to the direction L).

c Moderate crack lines run along the edges of the test specimen.

d Darkening due to external influences and/or photochromism due to the shock effect of accelerated stress; neither of these are characteristic features under natural stress.

e Test speed (feed speed of the crosshead): 2 mm/min.

f Test specimen type 1A. Test speed (crosshead feed rate): 5 mm/min.