



PROPERTY	UNIT	VALUE	STANDARD	VARIABLE	
<b>General</b>					
Density	g/cm <sup>3</sup>	≥ 1,35	EN ISO 1183		
Resistance to immersion in boiling water	Mass increase	%	≤ 5,0	EN 438-2.12	2 ≤ t < 5 mm
	Mass increase	%	≤ 2,0		5 ≤ t mm
	Thickness increase	%	≤ 6,0	EN 438-2.12	2 ≤ t < 5 mm
	Thickness increase	%	≤ 2,0		5 ≤ t mm
	Appearance	Rating	≥ 3		Gloss
	Appearance	Rating	≥ 4		Other finish
Resistance to water vapour	Appearance	Rating	≥ 3	EN 438-2.14	Gloss
	Appearance	Rating	≥ 4		Other finish
Surface quality	Spots, dirt, and similar surface defects	mm <sup>2</sup> /m <sup>2</sup>	≤ 1	EN 438-2.4	
	Fibres, hairs and scratches	mm/m <sup>2</sup>	≤ 10		
Resistance to crazing	Appearance	Rating	≥ 4	EN 438-2.24	
Resistance to scratching	Appearance	Rating	≥ 2	EN 438-2.25	Smooth
	Appearance	Rating	≥ 3		Textured
Resistance to staining	Appearance - Group 1 & 2	Rating	≥ 5	EN 438-2.26	
	Appearance - Group 3	Rating	≥ 4		
Light fastness (Xenon-arc)	Contrast	Grey scale rating	≥ 4	EN 438-2.27	
Hygiëne	NSF/ANSI 35	passing/ not passing	pass	NSF	
Formaldehyde emission	Chamber method	mg/m <sup>3</sup> ppm	0,020 - 0,035 0,015 - 0,030	EN 717- 1	
	Gas analysis	mg/(m <sup>2</sup> *h)	0,3 - 0,4	EN ISO 12460-3	
	Classification	Class	E1	EN 13986	



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<b>General</b>					
<b>Volatile Organic Chemical Emissions</b>	<b>Individual VOC's</b>	TLV	≤ 0,1	Greenguard Certification Low Chemical Emission UL 2818 according to EPA TO-17 e ASTM D 6196 EPA TO-11A e ASTM D 5197	
	<b>Formaldehyde</b>	ppm	≤ 0,025		
	<b>Total VOC</b>	mg/m <sup>3</sup>	≤ 0,25		
	<b>Total Aldehydes</b>	ppm	≤ 0,05		
	<b>4-Phenylcyclohexene</b>	mg/m <sup>3</sup>	≤ 0,0033		
	<b>Total respirable particles</b>	mg/m <sup>3</sup>	≤ 0,025		
<b>Contact with food - Overall migration</b>	<b>3% acetic acid</b>	mg/dm <sup>2</sup>	< 10	EN 1186-3	24h @ 40°C
	<b>50% ethanol</b>			EN 1186-3	24h @ 40°C
	<b>95% ethanol</b>			EN 1186-14	24h @ 40°C
	<b>Isooctane</b>			EN 1186-14	24h @ 40°C
<b>Contact with food - Formaldehyde specific migration</b>	<b>3% acetic acid</b>	mg/kg	< 15	EN 13130-23	24h @ 40°C
<b>Evaluation of micro-organisms action</b>	<b>Microbial growth - smooth finish</b>	Rating	0 - no microbial growth	EN ISO 846	Smooth
	<b>Microbial growth - Textured finish</b>	Rating	1 - slight and slow microbial growth		Textured
<b>Mechanical</b>					
<b>Resistance to surface wear</b>	<b>Initial Point</b>	Revolutions	≥ 150	EN 438-2.10	
<b>Resistance to impact with large diameter ball</b>	<b>Indentation diameter 2 ≤ t &lt; 6 mm with 1.4 m drop height</b>	mm	h 1400 / d ≤ 10	EN 438-2.21	
	<b>Indentation diameter 6 ≤ t mm with 1.8 m drop height</b>	mm	h 1800 / d ≤ 10		
<b>Flexural modulus</b>	<b>Stress</b>	MPa	≥ 9000	EN ISO 178	
<b>Flexural strength</b>	<b>Stress</b>	MPa	≥ 80	EN ISO 178	



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<b>Thermal</b>					
<b>Resistance to dry heat (160 °C/20')</b>	<b>Appearance</b>	Rating	≥3	EN 438-2.16	Gloss
	<b>Appearance</b>	Rating	≥4		Other finish
<b>Resistance to wet heat (100 °C/20')</b>	<b>Appearance</b>	Rating	≥3	EN 438-2.18	Gloss
	<b>Appearance</b>	Rating	≥4		Other finish
<b>Dimensional stability at elevated temperatures</b>	<b>Cumulative dimensional change</b>	Longitudinal %	≤ 0,40	EN 438-2.17	2 ≤ t < 5 mm
	<b>Cumulative dimensional change</b>	Longitudinal %	≤ 0,30		5 ≤ t mm
	<b>Cumulative dimensional change</b>	Transversal %	≤ 0,80		2 ≤ t < 5 mm
	<b>Cumulative dimensional change</b>	Transversal %	≤ 0,60		5 ≤ t mm
<b>Thermal resistance / conductivity</b>		W/mK	0,2 - 0,5	EN 12664	
<b>Dimensional tolerances</b>					
<b>Thickness tolerance</b>	<b>mm</b>		± 0,20	EN 438-2.5	2,0 ≤ t < 3,0 mm
			± 0,30		3,0 ≤ t < 5,0 mm
			± 0,40		5,0 ≤ t < 8,0 mm
			± 0,50		8,0 ≤ t < 12,0 mm
			± 0,60		12,0 ≤ t < 16,0 mm
			± 0,70		16,0 ≤ t < 20,0 mm
			± 0,80		20,0 ≤ t < 25,0 mm
			to be agreed		t ≥ 25,0
<b>Length and width tolerance</b>	<b>mm</b>		+ 10 / - 0	EN 438-2.6	
<b>Straightness of edges</b>	<b>mm/m</b>		≤ 1,5	EN 438-2.7	
<b>Squareness</b>	<b>mm/m</b>		≤ 1,5	EN 438-2.8	



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<b>Dimensional tolerances</b>				
Flatness (measured on full-size sheet)	mm/m	$\leq 8$		$2,0 t < 6,0 \text{ mm}$
		$\leq 5$		$6,0 \leq t < 10,0 \text{ mm}$
		$\leq 3$		$10,0 \leq t$
<b>Fire classification</b>				
Fire rating EU / CGS e ACS types		C-s1, d0	EN 13501	$6 \leq t \leq 12 \text{ mm}$ , metal frame