



# Compact 2002

## Technical Data and Certifications

### MATERIAL PROPERTIES TESTED IN ACCORDANCE TO EN 438-2 (average value of production control) - Classification CGS

Properties	Norms	Unit	Value
<b>Physical data</b>			
Apparent density	EN ISO 1183	g/cm <sup>3</sup>	≥ 1,35
Thickness tolerance	EN 438-2, point 5	mm	5,0 ≤ t < 8,0 ± 0,40
			8,0 ≤ t < 12,0 ± 0,50
			12,0 ≤ t < 16,0 ± 0,60
			16,0 ≤ t < 20,0 ± 0,70
<b>Mechanical properties</b>			
Resistance against stress abrasion ( <i>wear value</i> )	EN 438-2, point 10	Revolutions	≥ 350
Falling ball impact resistance			
<i>Indentation diameter - 2 ≤ t &lt; 6 mm with 1.4 m drop height</i>	EN 438-2, point 21	mm	<i>h 1400 / d ≤ 10</i>
			<i>h 1800 / d ≤ 10</i>
<i>Indentation diameter - 6 ≤ t &lt; 12 mm with 1.8 m drop height</i>			
Resistance against scratching	EN 438-2, point 25	Rating	≥ 2 smooth finishes and ≥ 3 textured finishes
Flexural strength	EN ISO 178	Mpa	≥ 80
E-Modulus	EN ISO 178	Mpa	≥ 9000
Susceptibility to cracking	EN 438-2, point 24	Rating	≥ 4
<b>Thermal properties</b>			
Dimensional changes during climatic changes, measured at elevated temperatures	EN 438-2, point 17	long. %	2 ≤ t < 5 mm <sup>1)</sup> ≤ 0,40
			5 ≤ t < 12 mm <sup>1)</sup> ≤ 0,30
		trasv. %	2 ≤ t < 5 mm <sup>1)</sup> ≤ 0,80
			5 ≤ t < 12 mm <sup>1)</sup> ≤ 0,60
Resistance to boiling water (thickness increase)	EN 438-2, point 12	%	2 ≤ t < 5 mm ≤ 6
			5 ≤ t mm ≤ 2
Thermal conductivity	EN 12664	W/mK	0,2 to 0,5
Resistance to water vapour	EN 438-2, point 14	Rating	≥ 3 gloss finishes and ≥ 4 other finishes
Resistance to cigarette burns	EN 438-2, point 30	Rating	≥ 3
Resistance to dry heat (180°C/ 20 min.)	EN 438-2, point 16	Rating	≥ 3 gloss finishes and ≥ 4 other finishes
<b>Optical properties</b>			
Light fastness	EN 438-2, point 27	Grayscale	≥ 4

1) Cumulative dimensional changes



## FOOD CONTACT

Properties	Norms	Unit	Value
Overall migration	EN 1186-3	mg/dm <sup>2</sup>	3% acetic acid 24 at 40°C < 10
	EN 1186-3		50% ethanol 24 at 40°C < 10
	EN 1186-14		95% ethanol 24 at 40°C < 10
	EN 1186-14		isooctane 24 at 40°C < 10
Formaldehyde specific migration	EN 13130-23	mg/kg	3% acetic acid 24 at 40°C < 15

## REACTION TO FIRE CLASSIFICATION

Properties	Norms	Unit	Value
Reaction to fire <i>CGS and ACS types</i>	EN 13501	Class	2 mm ≤ t < 6 mm D-s1,d0 (metal frame)
			t ≥ 6 mm C-s1,d0 (metal frame)
			t ≥ 2,5 mm D-s2,d0 (wood frame)
Reaction to fire <i>CGF and ACF types</i>	EN 13501	Class	t ≥ 2,5 mm B-s1,d0 (metal frame)
			3 mm ≤ t < 6 mm C-s2,d0 (metal frame and wood frame)
			t ≥ 6 mm B-s1,d0 (metal frame and wood frame)