



# Compact Resistance

## 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	DIN 52350/ISO 1183	g/cm <sup>3</sup>	≥ 1,4
Thickness (e.g.)	EN 438-2, point 5	mm	10
Weight		kg/m <sup>2</sup>	14,0
<b>Mechanical properties</b>			
Resistance against stress abrasion	EN 438-2, point 10	U	450
Falling ball impact resistance	EN 438-2, point 21	mm	8
Resistance against scratching	EN 438-2, point 25	Degree	3
		Scratch r.	4N
Flexural strength	EN ISO 178	Mpa	100
E-Modulus	EN ISO 178	Mpa	10000
Tensile strength	EN ISO 527-2	Mpa	60
Susceptibility to cracking	EN 438-2, point 24		5
<b>Thermal properties</b>			
Dimensional changes during climatic changes, measured at elevated temperatures	EN 438-2, point 17	length. %	0,05
		cross. %	0,15
Resistance to boiling water	EN 438-2, point 12	%	0,3
Coefficient of thermal expansion	DIN 52328	1/K	20 × 10 <sup>-6</sup>
Thermal conductivity		W/mK	ca. 0,3
Resistance to vapour diffusion		μ	17 200
Surface resistance	DIN 53482	Ohm	10 <sup>9</sup> -10 <sup>11</sup>
Resistance to cigarette burns	EN 438-2, point 30	Degree	5 - no visible changes <sup>1)</sup>
Resistance to hot soucepans	EN 438-2, point 16	Degree	5 - no visible changes, no blisters or cracks <sup>2)</sup>
Heating value		MJ/kg	18-20
<b>Optical properties</b>			
Light fastness	EN 438-2, point 27	Level	6-8

1) Slight change in glossy finish, yellow or light brown colours are permitted by EN 438

2) Slight change in glossy finish permitted by EN 438

\* These qualities are only suitable for inner lining. The panels should not be exposed to high fluctuations of temperature or moisture. (Recommended range: +15 - +35°C, 30 -70% rel. to air moisture)



## REACTION TO FIRE CLASSIFICATION

Standard Class 2

Europe EN 13501-1 Euroclass D-s2, d0

Austria A3800/1 Tr1, Q1

Germany DIN 4102 B2