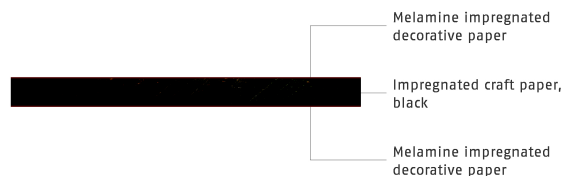


## Technical details

### Duropal-HPL Compact, black core

Compact high-pressure laminate in standard quality and the classification CGS to EN 438-4. With black core and decorative melamine resin surface on both sides.

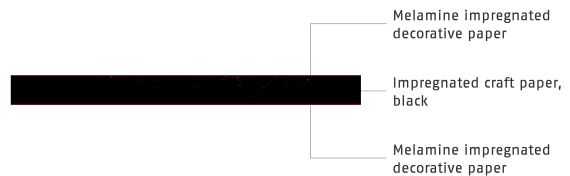


Specification									Unit	Standard
Nominal thickness	2	2	3	3	4	4	5	5	mm	
Length	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	mm	
Width	1,860	2,070	1,860	2,070	1,860	2,070	1,860	2,070	mm	
Thickness tolerance	± 0.2	± 0.2	± 0.3	± 0.3	± 0.3	± 0.3	± 0.4	± 0.4	mm	EN 438-2
Length tolerance									mm	EN 438-2
Width tolerance									mm	EN 438-2
Straightness of edges									mm/m	EN 438-2
Squareness									mm/m	EN 438-2
Flatness (length)									mm/m	EN 438-2
Flatness (width)									mm/m	EN 438-2
Edge defects									mm	EN 438-4
Surface defects									mm <sup>2</sup> /m <sup>2</sup> mm/m <sup>2</sup>	EN 438-4
Density									kg/m <sup>3</sup>	ISO 1183
Thermal conductivity									W/(mK)	EN 438-7
Bending strength									MPa	EN ISO 178
Flexural modulus									MPa	EN ISO 178
Tensile strength									MPa	EN ISO 527-2
Resistance to fixings (face)	≥ 250	≥ 250	≥ 250	≥ 250	≥ 1,000	≥ 1,000	≥ 1,000	≥ 1,000	N	EN 438-7
Resistance to impact (large diameter ball)									mm	EN 438-2
Resistance to crazing									rating	EN 438-2
Dimensional stability at elevated temperature (length)	≤ 0.4	≤ 0.4	≤ 0.4	≤ 0.4	≤ 0.4	≤ 0.4	≤ 0.3	≤ 0.3	%	EN 438-2
Dimensional stability at elevated temperature (width)	≤ 0.8	≤ 0.8	≤ 0.8	≤ 0.8	≤ 0.8	≤ 0.8	≤ 0.6	≤ 0.6	%	EN 438-2
Resistance to dry heat / 180 °C (smooth finishes)									rating	EN 438-2
Resistance to dry heat / 180 °C (textured finishes)									rating	EN 438-2
Resistance to wet heat / 100 °C (smooth finishes)									rating	EN 12721
Resistance to wet heat / 100 °C (textured finishes)									rating	EN 12721
Resistance to immersion in boiling water (smooth finishes)									rating	EN 438-2
Resistance to immersion in boiling water (textured finishes)									rating	EN 438-2
Resistance to immersion in boiling water	≤ 5 <sup>3)</sup> ≤ 6 <sup>4)</sup>	≤ 5 <sup>3)</sup> ≤ 6 <sup>4)</sup>	≤ 5 <sup>3)</sup> ≤ 6 <sup>4)</sup>	≤ 5 <sup>3)</sup> ≤ 6 <sup>4)</sup>	≤ 5 <sup>3)</sup> ≤ 6 <sup>4)</sup>	≤ 5 <sup>3)</sup> ≤ 6 <sup>4)</sup>	≤ 2 <sup>3)</sup> ≤ 2 <sup>4)</sup>	≤ 2 <sup>3)</sup> ≤ 2 <sup>4)</sup>	%	EN 438-2
Initial wear point (IP)									U	EN 438-2
Wear resistance (WR)									U	EN 438-2

## Technical details

### Duropal-HPL Compact, black core

Compact high-pressure laminate in standard quality and the classification CGS to EN 438-4. With black core and decorative melamine resin surface on both sides.



Specification									Unit	Standard
Nominal thickness	2	2	3	3	4	4	5	5	mm	
Length	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	mm	
Width	1,860	2,070	1,860	2,070	1,860	2,070	1,860	2,070	mm	
Resistance to scratching (smooth finishes)	min. 2								rating	EN 438-2
Resistance to scratching (textured finishes)	min. 3								rating	EN 438-2
Stain resistance (groups 1 & 2)	min. 5								rating	EN 438-2
Stain resistance (group 3)	min. 4								rating	EN 438-2
Resistance to cigarette burns	min. 3								rating	EN 438-2
Resistance to water vapour (smooth finishes)	min. 3								rating	EN 438-2
Resistance to water vapour (textured finishes)	min. 4								rating	EN 438-2
Light fastness (xenon arc light)	min. 4								grey scale rating	EN 438-2
Calorific value	env. 19								MJ/kg	
Reaction to fire	normally inflammable									DIN 4102-1
Reaction to fire (Euroclass)	not classified									EN 13501-1

<sup>1)</sup> Dirt, spots and similar surface defects

<sup>2)</sup> Fibres, hairs and scratches

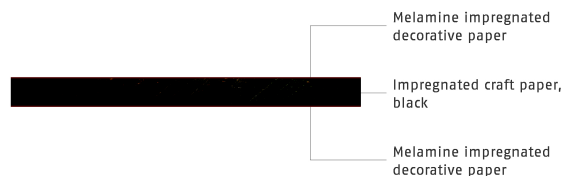
<sup>3)</sup> Mass increase

<sup>4)</sup> Thickness increase

## Technical details

### Duropal-HPL Compact, black core

Compact high-pressure laminate in standard quality and the classification CGS to EN 438-4. With black core and decorative melamine resin surface on both sides.

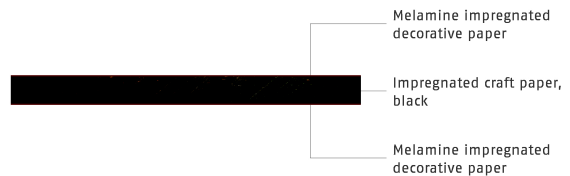


Specification									Unit	Standard
Nominal thickness	6	6	7	7	8	8	9	9	mm	
Length	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	mm	
Width	1,860	2,070	1,860	2,070	1,860	2,070	1,860	2,070	mm	
Thickness tolerance	± 0.4	± 0.4	± 0.4	± 0.4	± 0.5	± 0.5	± 0.5	± 0.5	mm	EN 438-2
Length tolerance				+ 10					mm	EN 438-2
Width tolerance				+ 10					mm	EN 438-2
Straightness of edges				≤ 1.5					mm/m	EN 438-2
Squareness				≤ 1.5					mm/m	EN 438-2
Flatness (length)				≤ 5					mm/m	EN 438-2
Flatness (width)				≤ 5					mm/m	EN 438-2
Edge defects				≤ 3					mm	EN 438-4
Surface defects				≤ 1 <sup>1)</sup> ≤ 10 <sup>2)</sup>					mm <sup>2</sup> /m <sup>2</sup> mm/m <sup>2</sup>	EN 438-4
Density				≥ 1,350					kg/m <sup>3</sup>	ISO 1183
Thermal conductivity				env. 0.3					W/(mK)	EN 438-7
Bending strength				≥ 80					MPa	EN ISO 178
Flexural modulus				≥ 9,000					MPa	EN ISO 178
Tensile strength				≥ 60					MPa	EN ISO 527-2
Resistance to fixings (face)	≥ 2,000	≥ 2,000	≥ 2,000	≥ 2,000	≥ 3,000	≥ 3,000	≥ 3,000	≥ 3,000	N	EN 438-7
Resistance to impact (large diameter ball)				≥ 1,800					mm	EN 438-2
Resistance to crazing				min. 4					rating	EN 438-2
Dimensional stability at elevated temperature (length)				≤ 0.3					%	EN 438-2
Dimensional stability at elevated temperature (width)				≤ 0.6					%	EN 438-2
Resistance to dry heat / 180 °C (smooth finishes)				min. 3					rating	EN 438-2
Resistance to dry heat / 180 °C (textured finishes)				min. 4					rating	EN 438-2
Resistance to wet heat / 100 °C (smooth finishes)				min. 3					rating	EN 12721
Resistance to wet heat / 100 °C (textured finishes)				min. 4					rating	EN 12721
Resistance to immersion in boiling water (smooth finishes)				min. 3					rating	EN 438-2
Resistance to immersion in boiling water (textured finishes)				min. 4					rating	EN 438-2
Resistance to immersion in boiling water				≤ 2 <sup>3)</sup> ≤ 2 <sup>4)</sup>					%	EN 438-2
Initial wear point (IP)				≥ 150					U	EN 438-2
Wear resistance (WR)				≥ 350					U	EN 438-2

## Technical details

### Duropal-HPL Compact, black core

Compact high-pressure laminate in standard quality and the classification CGS to EN 438-4. With black core and decorative melamine resin surface on both sides.



Specification									Unit	Standard
Nominal thickness	6	6	7	7	8	8	9	9	mm	
Length	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	mm	
Width	1,860	2,070	1,860	2,070	1,860	2,070	1,860	2,070	mm	
Resistance to scratching (smooth finishes)	min. 2								rating	EN 438-2
Resistance to scratching (textured finishes)	min. 3								rating	EN 438-2
Stain resistance (groups 1 & 2)	min. 5								rating	EN 438-2
Stain resistance (group 3)	min. 4								rating	EN 438-2
Resistance to cigarette burns	min. 3								rating	EN 438-2
Resistance to water vapour (smooth finishes)	min. 3								rating	EN 438-2
Resistance to water vapour (textured finishes)	min. 4								rating	EN 438-2
Light fastness (xenon arc light)	min. 4								grey scale rating	EN 438-2
Calorific value	env. 19								MJ/kg	
Reaction to fire	normally inflammable									DIN 4102-1
Reaction to fire (Euroclass)	D-s2,d0									EN 13501-1, CWFT

<sup>1)</sup> Dirt, spots and similar surface defects

<sup>2)</sup> Fibres, hairs and scratches

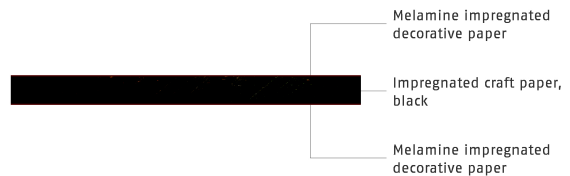
<sup>3)</sup> Mass increase

<sup>4)</sup> Thickness increase

## Technical details

### Duropal-HPL Compact, black core

Compact high-pressure laminate in standard quality and the classification CGS to EN 438-4. With black core and decorative melamine resin surface on both sides.

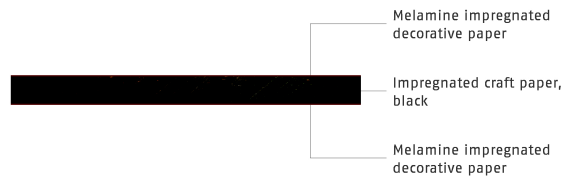


Specification									Unit	Standard
Nominal thickness	10	10	12	12	13	13	15	15	mm	
Length	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	mm	
Width	1,860	2,070	1,860	2,070	1,860	2,070	1,860	2,070	mm	
Thickness tolerance	± 0.5	± 0.5	± 0.6	± 0.6	± 0.6	± 0.6	± 0.6	± 0.6	mm	EN 438-2
Length tolerance				+ 10					mm	EN 438-2
Width tolerance				+ 10					mm	EN 438-2
Straightness of edges				≤ 1.5					mm/m	EN 438-2
Squareness				≤ 1.5					mm/m	EN 438-2
Flatness (length)				≤ 3					mm/m	EN 438-2
Flatness (width)				≤ 3					mm/m	EN 438-2
Edge defects				≤ 3					mm	EN 438-4
Surface defects				≤ 1 <sup>1)</sup> ≤ 10 <sup>2)</sup>					mm <sup>2</sup> /m <sup>2</sup> mm/m <sup>2</sup>	EN 438-4
Density				≥ 1,350					kg/m <sup>3</sup>	ISO 1183
Thermal conductivity				env. 0.3					W/(mK)	EN 438-7
Bending strength				≥ 80					MPa	EN ISO 178
Flexural modulus				≥ 9,000					MPa	EN ISO 178
Tensile strength				≥ 60					MPa	EN ISO 527-2
Resistance to fixings (face)				≥ 4,000					N	EN 438-7
Resistance to impact (large diameter ball)				≥ 1,800					mm	EN 438-2
Resistance to crazing				min. 4					rating	EN 438-2
Dimensional stability at elevated temperature (length)				≤ 0.3					%	EN 438-2
Dimensional stability at elevated temperature (width)				≤ 0.6					%	EN 438-2
Resistance to dry heat / 180 °C (smooth finishes)				min. 3					rating	EN 438-2
Resistance to dry heat / 180 °C (textured finishes)				min. 4					rating	EN 438-2
Resistance to wet heat / 100 °C (smooth finishes)				min. 3					rating	EN 12721
Resistance to wet heat / 100 °C (textured finishes)				min. 4					rating	EN 12721
Resistance to immersion in boiling water (smooth finishes)				min. 3					rating	EN 438-2
Resistance to immersion in boiling water (textured finishes)				min. 4					rating	EN 438-2
Resistance to immersion in boiling water				≤ 2 <sup>3)</sup> ≤ 2 <sup>4)</sup>					%	EN 438-2
Initial wear point (IP)				≥ 150					U	EN 438-2
Wear resistance (WR)				≥ 350					U	EN 438-2

## Technical details

### Duropal-HPL Compact, black core

Compact high-pressure laminate in standard quality and the classification CGS to EN 438-4. With black core and decorative melamine resin surface on both sides.



Specification									Unit	Standard
Nominal thickness	10	10	12	12	13	13	15	15	mm	
Length	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	mm	
Width	1,860	2,070	1,860	2,070	1,860	2,070	1,860	2,070	mm	
Resistance to scratching (smooth finishes)	min. 2								rating	EN 438-2
Resistance to scratching (textured finishes)	min. 3								rating	EN 438-2
Stain resistance (groups 1 & 2)	min. 5								rating	EN 438-2
Stain resistance (group 3)	min. 4								rating	EN 438-2
Resistance to cigarette burns	min. 3								rating	EN 438-2
Resistance to water vapour (smooth finishes)	min. 3								rating	EN 438-2
Resistance to water vapour (textured finishes)	min. 4								rating	EN 438-2
Light fastness (xenon arc light)	min. 4								grey scale rating	EN 438-2
Calorific value	env. 19								MJ/kg	
Reaction to fire	normally inflammable									DIN 4102-1
Reaction to fire (Euroclass)	D-s2,d0									EN 13501-1, CWFT

<sup>1)</sup> Dirt, spots and similar surface defects

<sup>2)</sup> Fibres, hairs and scratches

<sup>3)</sup> Mass increase

<sup>4)</sup> Thickness increase

#### Additional Information

Product standard	<ul style="list-style-type: none"> <li>EN 438-4</li> </ul>
Product safety	<ul style="list-style-type: none"> <li>The decorative surface and the core consists of paper layers that are impregnated with thermosetting resins. The resins harden completely during the manufacturing process by heat and high pressure. They form a stable, resistant and non-reactive material.</li> <li>The surface is physiologically safe, and approved for direct contact with food.</li> <li>This product is following the REACH regulation EG 1907/2006 an article. Following Article 7 it needs not to be registered.</li> </ul>
Special	<ul style="list-style-type: none"> <li>The coarser the structure and the lighter the decor, the greater the scratch resistance.</li> <li>The smoother the structure and the the darker the decor, the more sensitive it gets to stains.</li> <li>Because for production technical reasons there can be slight colour variations of the black coloured core.</li> </ul>

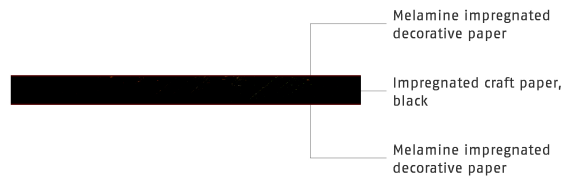
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In view of the ongoing further development and adaptation of our products, possible amendments to the relevant standards, laws and regulations, our technical data sheets and product documentation expressly do not constitute a legally binding assurance of the properties described there. In particular

## Technical details

### Duropal-HPL Compact, black core

Compact high-pressure laminate in standard quality and the classification CGS to EN 438-4. With black core and decorative melamine resin surface on both sides.



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