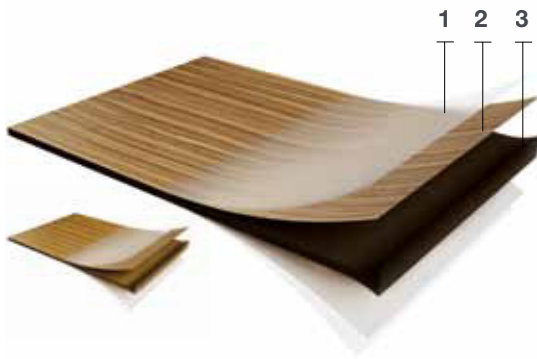


# 2 | TECHNICAL PROPERTIES

## A | Composition

### REYSIPUR® COMPACT



- 1 Protective overlay on printed decors.
- 2 Decorative paper on both sides impregnated with melamine resin.
- 3 Layers of brown or black kraft paper impregnated with phenolic resin.

### MONOCHROM® COMPACT



- 1 Decorative paper on both sides impregnated with melamine resin.
- 2 Layers of deep dyed kraft paper impregnated with thermosetting resin.



Crack resistant



Scratch resistant



Heat resistant



Ease of maintenance



Hygienic surface



Resistant to chemical and household products



Abrasion resistant



Colour fastness under artificial light



Resistant to cigarette burns



Impact resistant

# B | Technical properties

## 1. Reysipur® Compact

Conforms EN 438-4	Grade	Standard		Fire retardant
	Decor / finish	All decors - FA		
	Thickness	4 - 6 - 8 - 10 - 12.5 mm		
	Classification	CGS	CGF	
Characteristics	Standard	Units		
<b>PHYSICAL AND DIMENSIONAL PROPERTIES</b>				
Volumetric density	EN ISO 1183-1	g/cm <sup>3</sup>	≥ 1.35	≥ 1.35
Thickness tolerance	EN 438-2-5	mm	4 mm : ± 0.30 / 6 mm : ± 0.40 8 - 10 mm : ± 0.50 / 12.5 mm : ± 0.60	4 mm : ± 0.30 / 6 mm : ± 0.40 8 - 10 mm : ± 0.50 / 12.5 mm : ± 0.60
Length and width tolerance	EN 438-2-6	mm	- 0 / + 10	- 0 / + 10
Straightness tolerance	EN 438-2-7	mm/m	≤ 1.5	≤ 1.5
Squareness tolerance	EN 438-2-8	mm/m	≤ 1.5	≤ 1.5
Flatness tolerance	EN 438-2-9	mm/m	4 mm : ≤ 8.0 / 6-8 mm : ≤ 5.0 10-12.5 mm : ≤ 3.0	4 mm : ≤ 8.0 / 6-8 mm : ≤ 5.0 10-12.5 mm : ≤ 3.0
Dimensional stability at high temperature • Longitudinal • Transverse	EN 438-2-17	%	4 mm : ≤ 0.40 / 6-8-10-12.5 mm : ≤ 0.30 4 mm : ≤ 0.80 / 6-8-10-12.5 mm : ≤ 0.60	4 mm : ≤ 0.40 / 6-8-10-12.5 mm : ≤ 0.30 4 mm : ≤ 0.80 / 6-8-10-12.5 mm : ≤ 0.60
<b>MECHANICAL PROPERTIES</b>				
Modulus of elasticity	ISO 178	MPa	≥ 9000	≥ 9000
Bending strength	ISO 178	MPa	≥ 80	≥ 80
Traction strength	ISO R527	MPa	≥ 60	≥ 60
Resistance to boiling water • Mass increase • Thickness increase • Appearance	EN 438-2-12	% Class <sup>(a)</sup>	4 mm : ≤ 5 / 6-8-10-12.5 mm : ≤ 2 4 mm : ≤ 6 / 6-8-10-12.5 mm : ≤ 2 4	4 mm : ≤ 7 / 6-8-10-12.5 mm : ≤ 3 4 mm : ≤ 9 / 6-8-10-12.5 mm : ≤ 6 4
Impact resistance (large diameter ball) (drop height for ≤ 10mm diameter imprint)	EN 438-2-21	mm	4 mm ≥ 1400 6-8-10-12.5 mm ≥ 1800	4 mm ≥ 1400 6-8-10-12.5 mm ≥ 1800
Resistance to surface cracking	EN 438-2-24	Class <sup>(a)</sup>	4	4
<b>SURFACE PROPERTIES</b>				
Surface defects • Spots • Linear	EN 438-2-4	mm <sup>2</sup> /m <sup>2</sup> mm/m <sup>2</sup>	≤ 1 ≤ 10	≤ 1 ≤ 10
Abrasion resistance (initial point)	EN 438-2-10	No. of revolutions	≥ 150	≥ 150
Resistance to steam	EN 438-2-14	Class <sup>(a)</sup>	4	4
Dry heat resistance 180 °C	EN 438-2-16	Class <sup>(a)</sup>	4	4
Resistance to humidity	EN 12721	Class <sup>(a)</sup>	4	4
Scratch resistance	EN 438-2-25	Grade <sup>(b)</sup>	3	3
Stain resistance • Groups 1 & 2 • Group 3	EN 438-2-26	Class <sup>(a)</sup>	5 4	5 4
Colour fastness under artificial light	EN 438-2-27	Grayscale	4 to 5	4 to 5
Resistance to cigarette burns	EN 438-2-30	Class <sup>(a)</sup>	3	3
<b>FIRE PERFORMANCE</b>				
Fire rating	EN 13501-1	Euroclass	< 8 mm : D, s2 - d0 / ≥ 8 mm : C, s1 - d0	≥ 6 mm : B, s1 - d0
Calorific value	EN ISO 1716	MJ/kg	18 - 20	18 - 20
<b>HEALTH AND ENVIRONMENTAL CHARACTERISTICS</b>				
Food safe	EN 13130-1		Yes	Yes
Formaldehyde emission	EN 717-2	Class	E1	E1
Volatile organic compounds emission	ISO 16000-9	Class	A	A
Antibacterial properties	JIS Z 2801	Reduction in %	> 99.9	> 99.9

CGS : Standard Grade Compact CGF : Fire Retardant Grade Compact

(a) Class : 1 = Surface damage, 2 = Severe appearance alteration, 3 = Moderate change, 4 = Slight change visible from certain angles, 5 = No change.

(b) Grade : 2 = Continuous scratches at 2N, 3 = Continuous scratches at 4N.

## 2. Monochrom<sup>®</sup> Compact

Conforms EN 438-4 and 438-9	Grade		Fire retardant	Standard	
	Core type		White	Deep black	
	Decor / finish		FA - BRIHG - ROC		
	Thickness		8 - 10 - 12.5 mm	10 - 12.5 mm	
	Classification		BCF	CGS	
Characteristics	Standard	Units			
<b>PHYSICAL AND DIMENSIONAL PROPERTIES</b>					
Volumetric density	EN ISO 1183-1	g/cm <sup>3</sup>	≥ 1.40	≥ 1.35	
Thickness tolerance	EN 438-2-5	mm	8-10 mm : ± 0.70 / 12.5 mm : ± 0.80	-10 mm : ± 0.50 / 12.5 mm : ± 0.60	
Length and width tolerance	EN 438-2-6	mm	- 0 / + 10	- 0 / + 10	
Straightness tolerance	EN 438-2-7	mm/m	≤ 1.5	≤ 1.5	
Squareness tolerance	EN 438-2-8	mm/m	≤ 1.5	≤ 1.5	
Flatness tolerance	EN 438-2-9	mm/m	≤ 5.0	≤ 3.0	
Dimensional stability at high temperature	EN 438-2-17	%	≤ 0.50	≤ 0.30	
• Longitudinal • Transverse			≤ 0.80	≤ 0.60	
<b>MECHANICAL PROPERTIES</b>					
Modulus of elasticity	EN ISO 178	MPa	≥ 9000	≥ 9000	
Bending strength	EN ISO 178	MPa	≥ 80	≥ 80	
Traction strength	EN ISO 527-2	MPa	≥ 60	≥ 60	
Resistance to boiling water	EN 438-2-21	%	≤ 3	≤ 2	
• Mass increase			≤ 4	≤ 2	
• Thickness increase			BRIHG : 3 / Others : 4		BRIHG : 3 / Others : 4
• Appearance			Class <sup>(a)</sup>		
Impact resistance (large diameter ball) (drop height for ≤ 10mm diameter imprint)	EN 438-2-21	mm	≥ 1800	≥ 1800	
Resistance to cracking SURFACE	EN 438-2-24	Class <sup>(a)</sup>	BRIHG : 3 / Others : 4	BRIHG : 3 / Others : 4	
Resistance to cracking CORE	EN 438-2-24	Class <sup>(a)</sup>	3	3	
<b>SURFACE PROPERTIES</b>					
Surface defects	EN 438-2-4	mm <sup>2</sup> /m <sup>2</sup>	≤ 1	≤ 1	
• Spots • Linear			≤ 10	≤ 10	
Abrasion resistance (initial point)	EN 438-2-10	No. of revolutions	≥ 150	≥ 150	
Resistance to steam	EN 438-2-14	Class <sup>(a)</sup>	BRIHG : 3 / Others : 4	BRIHG : 3 / Others : 4	
Dry heat resistance 180 °C	EN 438-2-16	Class <sup>(a)</sup>	BRIHG : 3 / Others : 4	BRIHG : 3 / Others : 4	
Scratch resistance	EN 438-2-25	Grade <sup>(b)</sup>	BRIHG : 2 / Others : 3	BRIHG : 2 / Others : 3	
Stain resistance	EN 438-2-26	Class <sup>(a)</sup>	5	5	
• Groups 1 & 2			4	4	
• Group 3					
Colour fastness under artificial light	EN 438-2-27	Grayscale	4 to 5	4 to 5	
Resistance to cigarette burns	EN 438-2-30	Class <sup>(a)</sup>	3	3	
<b>FIRE PERFORMANCE</b>					
Fire rating	EN 13501-1	Euroclass	B-s2,d0	C-s1,d0	
Calorific value	EN ISO 1716	MJ/kg	18 - 20	18 - 20	
<b>HEALTH AND ENVIRONMENTAL CHARACTERISTICS</b>					
Food safe	EN 13130-1		Yes	Yes	
Formaldehyde emission	EN 717-2	Class	E1	E1	
Antibacterial properties	JIS Z 2801	Reduction in %	> 99.9	> 99.9	

BCF : Through-colour fire retardant Compact CGS : Standard grade Compact

(a) Class : 1= Surface damage, 2 = Severe surface alteration, 3 = Moderate change, 4 = Slight change visible from certain angles, 5 = No change.

(b) Grade : 2 = Continuous scratches at 2N, 3 = Continuous scratches at 4N.