



Decolan 

**QUALITY
DECORATIVE
SURFACES**

Headquarters

CORSO SAN GOTTARDO 32
CH-6830 CHIASSO
(SWITZERLAND)
ph. +4191 6821862
fax +4191 6825610

UK Office

39 CHAPMAN SQUARE
SW19 5QT LONDON
fax +44 20 7900 2652
info@decolan.ch
www.decolan.ch

USA Office

WOODLAWN OFFICE PARK
601 WOODLAWN DRIVE
SUITE 320
MARIETTA - GEORGIA 30067-3506
COBB COUNTY - U.S.A.
ph. (770) 3216595



INFORMATIVE TECHNICAL SHEET

DECOLAN-GREENLAM HPL COMPACTS

CGS - COMPACT GRADE STANDARD

CGF - COMPACT GRADE FIRE RETARDANT

Self-supporting material (from 2 mm) consisting of layers of kraft paper impregnated with thermosetting resins and an outer layer - on one or both sides - of decorative paper impregnated with aminoplastic resins; all bonded together by means of high pressure (9 MPa) and heat (150 °C).

PROPERTY	TEST METHOD (EN 438: 2005)	PROPERTY or ATTRIBUTE	UNIT	VALUES											
Thickness	EN 438-2.5	thickness	mm	2,0 ≤ t < 3,0 ± 0,20 3,0 ≤ t < 5,0 ± 0,30 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 20,0 ≤ t < 25,0 ± 0,80 25,0 ≤ t to be agreed											
Flatness	EN 438-2.9	deviation	mm/m	1 side decor 2,0 ≤ s ≤ 5,0 ≤ 50											
				2 side decors 2,0 ≤ s < 6,0 ≤ 8,0 6,0 ≤ s < 10,0 ≤ 5,0 10,0 ≤ s ≤ 3,0											
Resistance to surface wear	EN 438-2.10	wear resistance	revs	IP ≥ 150 A ≥ 350											
Resistance to immersion in boiling water	EN 438-2.12	mass increase	%	<table><tr><td></td><td>CGS</td><td>CGF</td></tr><tr><td>2 ≤ t < 5</td><td>≤ 5</td><td>≤ 7</td></tr><tr><td>5 ≤ t</td><td>≤ 2</td><td>≤ 3</td></tr></table>				CGS	CGF	2 ≤ t < 5	≤ 5	≤ 7	5 ≤ t	≤ 2	≤ 3
			CGS	CGF											
		2 ≤ t < 5	≤ 5	≤ 7											
		5 ≤ t	≤ 2	≤ 3											
thickness increase	%	<table><tr><td>2 ≤ t < 5</td><td>≤ 6</td><td>≤ 9</td></tr><tr><td>5 ≤ t</td><td>≤ 2</td><td>≤ 6</td></tr></table>			2 ≤ t < 5	≤ 6	≤ 9	5 ≤ t	≤ 2	≤ 6					
2 ≤ t < 5	≤ 6	≤ 9													
5 ≤ t	≤ 2	≤ 6													
appearance gloss finish	rating	≥ 3													
appearance other finishes		≥ 4													
Resistance to dry heat (180° C)	EN 438-2.16	appearance gloss finish	rating	≥ 3											
		appearance other finishes		≥ 4											

Headquarters

CORSO SAN GOTTARDO 32
CH-6830 CHIASSO
(SWITZERLAND)
ph. +41 91 6821862
fax +41 91 6825610

UK Office

39 CHAPMAN SQUARE
SW19 5QT LONDON
fax +44 20 7900 2652

info@decolan.ch
www.decolan.ch

USA Office

WOODLAWN OFFICE PARK
601 WOODLAWN DRIVE
SUITE 320
MARIETTA - GEORGIA 30067-3506
COBB COUNTY - U.S.A.
ph. (770) 3216595



(100° C) Resistance to wet heat	EN 12721	<i>appearance gloss finish</i> <i>appearance other finishes</i>	<i>rating</i>	≥ 3 ≥ 4
Stability at elevated temperature	EN 438-2.17	<i>cumulative dimensional change</i>	% <i>long.</i> % <i>transv.</i>	$2 \leq t < 5$ $\leq 0,40$ $\leq 0,80$
			% <i>long.</i> % <i>transv.</i>	$5 \leq t$ $\leq 0,30$ $\leq 0,60$
Res. to impact by large diameter ball	EN 438-2.21	<i>drop height</i>	mm	$2 \leq t < 6$ ≥ 1.400
		<i>indentation diameter</i>	mm	$6 \leq t$ ≥ 1.800 $\leq 10 \text{ mm}$
Resistance to crazing (thick laminates)	EN 438-2.24	<i>appearance</i>	<i>rating</i>	> 4
Resistance to scratching	EN 438-2.25	<i>force smooth finish</i>	<i>rating</i>	≥ 2
		<i>force textured finish</i>		≥ 3
Resistance to staining	EN 438-2.26	<i>appearance groups 1-2</i>	<i>rating</i>	5
		<i>appearance group 3</i>		≥ 4
Lightfastness	EN 438-2.27	<i>contrast</i>	<i>grey scale rating</i>	≥ 4
Resistance to cigarette burns	EN 438-2.30	<i>appearance</i>	<i>rating</i>	≥ 3
Resistance to water vapour	EN 438-2.14	<i>appearance gloss finish</i>	<i>rating</i>	≥ 3
		<i>appearance other finishes</i>		≥ 4
Electrical resistance	EN 61340-4-1	R_V (23° C / 50% RH)	Ohm	$1 \times 10^9 - 1 \times 10^{11}$
Thermal conductivity	DIN 52 612	-	W/m . ° K	0,25
Coefficient of linear thermal expansion	ASTM D 696	-	° C -1	$L = 1,6 \times 10^{-5} \text{ ca.}$ $T = 3,5 \times 10^{-5} \text{ ca.}$
Flexural strength	EN ISO 178	<i>stress</i>	Mpa	$L \geq 100$ $T \geq 90$
Flexural modulus (E)	EN ISO 178	<i>stress</i>	Mpa	$L \geq 10.000$ $T \geq 9.000$
Density	ISO 1183	<i>density</i>	gr/cm ³	$\geq 1,35$



Decolan 

QUALITY
DECORATIVE
SURFACES

Headquarters

CORSO SAN GOTTARDO 32
CH-6830 CHIASO
(SWITZERLAND)
ph. +4191 6821862
fax +4191 6825610

UK Office

39 CHAPMAN SQUARE
SW19 5QT LONDON
fax +44 20 7900 2652

info@decolan.ch
www.decolan.ch

USA Office

WOODLAWN OFFICE PARK
601 WOODLAWN DRIVE
SUITE 320
MARIETTA - GEORGIA 30067-3506
COBB COUNTY - U.S.A.
ph. (770) 3216595



FIRE PERFORMANCE

TEST METHOD	STANDARD	CLASSIFICATION	
		CGF	CGS
Piccola fiamma e px radiante	UNI 8457 UNI 9174 UNI 9177	class 1	class 2
	UNI CEI 11170-3	class 1A	/
Spread of flame	BS 476-7	class 1	class 2
Brandschacht	DIN 4102-1	B1	B2
Epiradiateur	NF P 92-501	M1	M2
Smoke density and toxicity	NF F 16-101	min F2	F1
	UNI CEI 11170-3		/
Reaction to fire	EN 13501-1	B-s2,d0 (≥ 6 mm) min C-s2,d0 (< 6 mm)	min D,s2-d0