

## Happy AE timeless grain collection



MARINE



OUTDOOR



HEALTHCARE



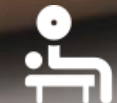
HOSPITALITY



RESIDENTIAL



OFFICE



PUBLIC SPACES



ACCESSORIES



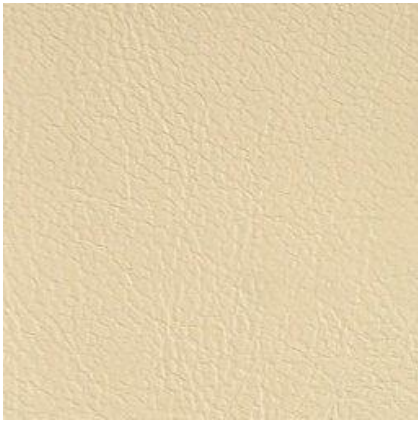
6



1200



1164



151



1120



6985



6986



1984



393



392



569



1270



430



477



55



64



41



1816



833



872



1831



508



667



680



5947



5948



1944



1915



Antimicrobial



Weather resistant



Phthalates free



Wear and tear resistant



REACH compliant



Excellent tailorability



RoHS compliant



IMO MED certified



Easy clean



Made in Italy

At Lederplast, we manufacture all of our products in Europe. As well as this, every component of our vinyl is sourced in Europe.

We pride ourselves on having full control of the manufacturing process and as a result are able to offer a totally bespoke product to meet our customers' needs.

All of our products parameters can be altered. We can match any colour, texture, thickness, backing cloth, specification etc. for minimum order quantity of 500 ml.





Required test	Unit	Test method	Values/Results	
Weight	g/m <sup>2</sup>	UNI EN 2286-2:2001	550 ± 50	
Thickness	mm	UNI EN 2286-3:2001	1,05 ± 0,2	
Width	cm	UNI EN 2286-1:2001	138 - 140	
Tensile strength	N	UNI EN ISO 1421 METHOD 1	Lengthwise:	≥ 210
			Crosswise:	≥ 90
Elongation strength	%	UNI EN ISO 1421 METHOD 1	Lengthwise:	≥ 85
			Crosswise:	≥ 140
Peel adhesion	N	UNI EN ISO 1421 METHOD 1	Lengthwise:	≥ 25
			Crosswise:	≥ 25
Tear resistance	N	UNI EN ISO 4674-1:2005 METHOD A	Lengthwise:	≥ 45
			Crosswise:	≥ 28
Abrasion resistance (Martindale method)	Cycles	UNI EN ISO 5470-2	300.000	
Flex life (Bally method)	Cycles	UNI 4818-13	30.000	
Colour fastness to weathering	Blue scale	UNI EN ISO 105 B04	7	
Colour fastness to chlorinated water (swimming pool water)	Grey scale	UNI EN ISO 105 E03	4 - 5	
Colour fastness to sea water	Grey scale	UNI EN ISO 105 E02	4 - 5	
Colour fastness to spotting	Grey scale	UNI EN ISO 105 E07	4 - 5	
Colour fastness to crocking	Grey scale	UNI EN ISO 105 X12 UNI EN ISO 105 D02 UNI EN ISO 105 X12 mod. 10 rubs	Dry:	4
			Bleach:	4/5
			Ethyl alcohol:	3/4
			Hydrogen peroxide (5%):	5
			Chlorhexidine (0,05%):	5
			Chloramine-T (5%):	5
			Isopropanol (80%):	5
			Massage oil:	4 - 5
			Moisturizing cream:	4 - 5
Colour fastness to perspiration	Grey scale	UNI EN ISO 105 E04	4 - 5	
Resistance to stains	Grey scale	UNI EN 15973	Massage oil:	4 - 5
			Moisturizing cream:	4
Determination of resistance to water penetration Constant pressure test	Hydrostatic pressure applied: 30 cm	UNI 5123	RESISTANT	
Resistance to penetration by body fluids (blood and urine)	0 – 20 kPa	ISO 16603	NO PENETRATION	
Special features	-	-	Antibacterial	
			Fungicide	

Contains biocidal active substances Tiabendazolo and Folpet to help preservation of the surface and oppose degradation caused by microbial growth (according to EU Regulation n. 528/2012).



Required test	Unit	Test method	Values/Results
Fire retardancy	-	UNI 9175:2010	CLASS 1 IM Item tested in combination with foam density of 25 kg/m3. Different foams can give different results.
		<ul style="list-style-type: none"> <li>▪ IMO Resolution MSC.307(88) - FTP Code 2010 – Part 8, Cigarette test - Open flame test)</li> <li>▪ Certificate number: MED/0497/1191</li> <li>▪ EN 1021-1:2006 Smouldering cigarette test</li> <li>▪ EN 1021-2:2006 Match flame equivalent test</li> <li>▪ BS 5852-1:1979 Match flame equivalent test</li> </ul>	
Composition	%	PVC	88%
		Polyester	12%
Cleaning rules	<p>Clean with damp soapy cloth and rinse well with clean water. Do not use solvents, bleaches, synthetic detergents, polishes or aerosol spray. Pearl colours not suitable if used under intense crackling.</p> <p>Normally synthetic leather light colours should not come in contact with no fixed cloured clothes (such as jeans and similar) not to cause stains and rings that can not be cleaned up.</p>		
<p>The overmentioned data correspond to average values communicated in good faith, but they can not be considered as a contract document. The product use has to be considered in terms of what has to be realized and it can not be held up responsible when it is improperly used.                      Slight colour differences among several lots are admitted.</p>			
<p>Pearl colours not suitable if used under intense crackling.</p>			



## CONFORMITY TO MEC/CAM (Minimum environmental criteria/Criteri Ambientali Minimi)

Ministerial Decree 11 January 2017 - Adoption of the minimum environmental criteria for interior furnishings, construction and textile products:

- Annex 1 - Table 3: Physical requirements for coated fabrics used as a coating in upholstered furniture and the point 3.2.5 Residues of chemical substances for textiles and leather
- Annex 3 - point 4.1.2 Restriction of hazardous chemicals to be tested on the finished product

Required test	Unit	Test method	MEC limits		Values/Results
Determination of tensile strength	daN	EN ISO 1421:2016	Lengthwise:	≥ 35	39,8
			Crosswise:	≥ 20	20,4
Determination of tear force of trouser shaped test specimens	daN	EN ISO 13937-2:2000	Lengthwise:	≥ 2,5	2,5
			Crosswise:	≥ 2	2,2
Colour fastness to artificial light	Blue scale	UNI EN ISO 105 B02:2014	Indoor use:	≥ 6	7
			Outdoor use:	≥ 7	7
Determination of abrasion resistance Martindale abrader	Cycles	UNI EN ISO 5470-2:2004	Method 1 (direct)	> 60.000	At 65.000 cycles: Index 2 slight damage
			Method 2 (reverse)	> 200.000	At 204.800 cycles: Index 1 very light damage
Determination of coating adhesion	daN	EN ISO 2411:2011	Lengthwise:	≥ 1,5	6,6
			Crosswise:	≥ 1,5	4,7
Phthalates	%	UNI EN ISO 14389:2014	0,1		< 0,06
Arylamines	mg/Kg	UNI EN 14362-1: 2012	≤ 30		NOT DETECTABLE
Determination of formaldehyde free and hydrolysed formaldehyde	mg/Kg	UNI EN ISO 14184-1:2011	≤ 75		< 3
Determination of formaldehyde free and hydrolysed formaldehyde (classroom furniture)	mg/Kg	UNI EN ISO 14184-1:2011	≤ 20		< 3
Determination of metal content	mg/Kg	UNI EN 16711-2:2015	Antimony:	≤ 30	8,00
			Arsenic:	≤ 1	NOT DETECTABLE
			Cadmium:	≤ 0,1	NOT DETECTABLE
			Chrome:	≤ 2	NOT DETECTABLE
			Cobalt:	≤ 4	NOT DETECTABLE
			Copper:	≤ 50	NOT DETECTABLE
			Lead:	≤ 1	NOT DETECTABLE
			Mercury:	≤ 0,02	NOT DETECTABLE
			Nickel:	≤ 1	NOT DETECTABLE

### OFFICE AND CONTACT

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