

MATERIAL PROPERTIES DATA SHEET | THIN

Soft Touch is an innovative material created for interior design. It is produced by the simultaneous application of heat (approx. 150 °C) and high specific pressure (> 7 MPa) in order to have a homogeneous non-porous high density product.

The core structure of Soft Touch is composed of paper impregnated with thermosetting resins. Its external surface involves the use of nanotechnology and its colour is obtained through next generation acrylic resins cured by Electron Beam Process.

Soft Touch is a material which stands out for specific features such as: high resistance to scratches and to dry heat, anti-fingerprint, soft touchness, low light reflectivity, thermal healing of superficial microscratches, enhanced anti-bacterial properties.

Soft Touch is suitable for different interior design applications: kitchen, bathroom, furniture, healthcare, hospitality, office, transportation, elevators, doors.

				0,9mm STANDARD	1,2mm MATCHED CORE
PROPERTIES	TEST METHOD	PROPERTY OR ATTRIBUTE	UNIT	INDICATIVE VALUES	
SURFACE QUALITY					
Surface quality	EN 438-2:2016 cl.4	Spots, dirt and similar surface defects	mm ² /m ²	≤ 1	
		Fibres, hair and scratches	mm/m ²	≤ 10	
DIMENSIONAL TOLERANCES					
Dimensional tolerances	EN 438-2:2016 cl.5	Thickness tolerance	mm	0,9 ± 0,10	1,2 ± 0,18
	EN 438-2:2016 cl.6	Length and width	mm	+10/-0	
	EN 438-2:2016 cl.7	Straightness of edges	mm/m	≤ 1,5	
	EN 438-2:2016 cl.8	Squareness	mm/m	≤ 1,5	
	EN 438-2:2016 cl.9	Flatness (measured on full-size sheet)	mm/m	≤ 60	≤ 100
GENERAL PROPERTIES					
Resistance to surface wear	EN 438-2:2016 cl.10	Initial Point	Revolutions	200	
Resistance to immersion in boiling water	EN 438-2:2016 cl.12	Appearance	Rating	5	
Resistance to water vapour	EN 438-2:2016 cl.14	Appearance	Rating	5	
Resistance to dry heat (180°C/20')	EN 438-2:2016 cl.16	Appearance	Rating	5	
Resistance to wet heat (100°C)	EN 12721:1997	Appearance	Rating	5	
Dimensional stability at high temperatures	EN 438-2:2016 cl.17	Cumulative dimensional change	Longitudinal %	0,55	0,8
		Cumulative dimensional change	Transversal %	1,05	1,4
Resistance to impact with small diameter ball	EN 438-2:2016 cl.20	Spring force	N	23	
Resistance to impact with large diameter ball	EN 438-2:2016 cl.21	Drop height	mm	800	
		Indentation diameter	mm	8	
Resistance to cracking	EN 438-2:2016 cl.23	Appearance	Rating	4	
Resistance to scratching	EN 438-2:2016 cl.25	Appearance	Rating	5	
Resistance to staining	EN 438-2:2016 cl.26	Appearance - Group 1 and 2	Rating	5	
		Appearance - Group 3	Rating	4	
Light fastness (Xenon-arc)	EN 438-2:2016 cl.27	Contrast	Grey scale rating	4	
Resistance to cigarette burns	EN 438-2:2005 cl.30	Appearance	Rating	4	
Surface specular reflectance	ISO 2813	Surface specular reflectance	Gloss unit	indicative values 0,2 at 20°, 1,5 at 60°, 10 at 85°	
Electrostatic property	EN 61340-4-1	Point to point resistance	Ω	1 x 10 ¹⁰ ÷ 1 x 10 ¹¹	
		Vertical resistance	Ω	1 x 10 ¹⁰ ÷ 1 x 10 ¹¹	
Resistance to microscratches	EN 438-2:2016 cl.30	Method A - gloss change mean value	%	5,2	
		Metodo B - surface visual assessment	Class	5	
Density	EN ISO 1183	Density	g/cm ³	1,4	

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FIRE PERFORMANCES					
Reaction to fire	The reaction to fire of applied Soft Touch is related to the final composite panel where the Soft Touch is bonded to a substrate. The results may be different depending on the substrates, the glue and the bonding techniques applied. The reaction to fire testing of the composite panel is under the responsibility of the panel manufacturer.				
OTHER PROPERTIES					
Acids resistance	SEFA 8-PL-2010 method 8.1	Chemical Spot Test	Passing/not passing	Passing	
Formaldehyde emission	EN 717 - 2	Gas analysis	mg/(m ² x h)	0,2 - 0,4	
	EN 13986	Formaldehyde emission rating	Rating	E1	
Hygiene	NSF	NSF/ANSI 35	Passing/not passing	Passing	
Volatile Organic Chemical Emissions	Greenguard Certification Low Chemical Emission UL 2818 according to EPA TO-17 e ASTM D 6196 EPA TO-11A e ASTM D 5197	Individual VOCs	TLV	≤ 0,1	
		Formaldehyde	ppm	≤ 0,025	
		Total VOCs	mg/m ³	≤ 0,25	
		Total Aldeidi	ppm	≤ 0,05	
		4-Phenylcyclohexene	mg/m ³	≤ 0,0033	
		Total Respirable Particles	mg/m ³	≤ 0,025	
Contact with food - Overall migration	EN 1186-3	3% acetic acid 24h at 40°C	mg/dm ²	< 10	
	EN 1186-3	50% ethanol 24h at 40°C		< 10	
	EN 1186-14	95% ethanol 24h at 40°C		< 10	
	EN 1186-14	isooctane 24h at 40°C		< 10	
Contact with food Formaldehyde specific migration	EN 13130-23	3% acetic acid 24h at 40°C	mg/kg	< 15	
Evaluation of micro-organisms action	JIS Z 2801	Antimicrobial activity after 24h at 35°C	Bacterial viability: - Log reduction - reduction %	> 2,4 > 99,9	

NOTE TO SOFT TOUCH PANELS WITH ADHESIVE PROTECTIVE FILM

The protective films are designed for temporary surface protection against dirt, scratches and tool marks; they are not designed for protection against corrosion, humidity or chemicals.

Soft Touch panels covered with the protective film shall be stored in a clean, dry place at room temperature (15-22°C), avoiding weathering and UV exposure.

The protective film must be removed from the surface of Soft Touch after the application and before putting into use the finite element. In any case, the removal must be made within six months from the date of shipment.