

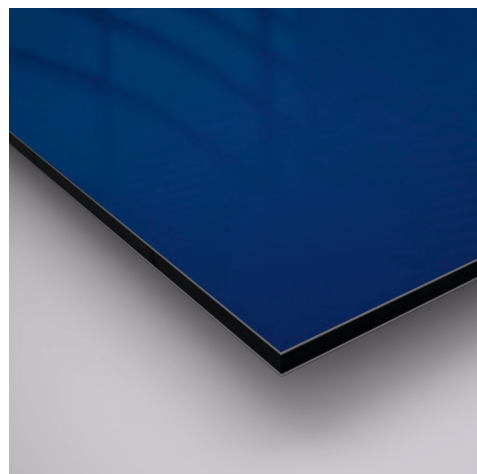
Technical data

CODE:**PRODUCT:**

ACPa 9000 PE, FR, A2 - 0,5 Al

NOTE:

TECHNICAL DATA

IMAGE:**LAST UPDATE:**

7/2021

ALUMINIUM COMPOSITE PANEL 9000

Specifications according to ACP types			9000 PE		9000 FR		9000 A2	
Panel Thickness	Reference	Unit	4 mm	6 mm	4 mm	6 mm	4 mm	
Aluminium skin thickness		mm	0,5					
Alloy	EN 573-3		EN AW 3105 (EN AW 5005 alloy is available when required)					
Temper	EN 515		H44					
Tensile strength	EN 485-2	MPa	150 - 200					
0,2% Proof stress	EN 485-2	MPa	min. 120					
Elongation	EN 485-2	A50 %	min. 3					
Lineer thermal expansion	EN 1999-1-1		2,4 mm/m at 100°C temperature difference					
Section modulus	DIN 53293	cm ³ /m	1,75	2,75	1,75	2,75	1,75	
Rigidity	DIN 53293	kN/cm ² /m	2400	5900	2400	5900	2400	
Modulus of elasticity	EN 1999-1-1	MPa	68.900					
Core type			LDPE (Low-Density-Polyethylene)		Mineral Reinforced Fire Retardant Core		Mineral Core	
Unit weight		kg/m ²	5,5	7,3	7,4	10,5	8,2	

Fire behaviour

Fire Classification	EN 13501-1	D-s2-d0	B-s1-d0	A2-s1-d0
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Finish properties

Type/ Finish		HDPE (High-Durable-Polyester) (Coil coating)				
Dry film thickness	EN 13523-1	Standard application 25 µm. Optional clearcoat and special thickness are available when required				
Gloss @60°	EN 13523-2	Standard application 25-40% (up to 85% by FEVE)				
Pencil hardness	EN 13523-4	Min HB				
Solvent rubs	EN 13523-11	>100 AR (MEK)				
Coating flexibility	EN 13523-6	6 mm				
T-Bend	EN 13523-7	1T Loss of adhesion				

Acoustic properties

Sound transmission loss	EN ISO 140.3	dB	25	27	26	27	27
Sound absorption factor	EN ISO 354		0,05	0,05	0,05	0,05	0,05
Loss factor	EN ISO 6721		0,0087	0,0138	0,009	0,0151	0,005

Thermal properties

Thermal resistance	DIN 52612	m ² K/W	0,0103	0,0172	0,003	0,005	0,003
Heat transition coefficient	DIN 4108	Wm ² /K	5,54	5,34	5,58	5,34	5,8
Temperature resistance		°C	-50°C up to + 80°C				