

ISOGENOTEC

Jacketing 350C

Isogenotec is made up of three layers: PVC, Aluminum and UV-resistance facing. This unique combination of materials allows the final product to have an outstanding amount of properties such as high corrosion resistance, high emissivity rate, vapour barrier capability, shape memory and very easy to install.

Construction:



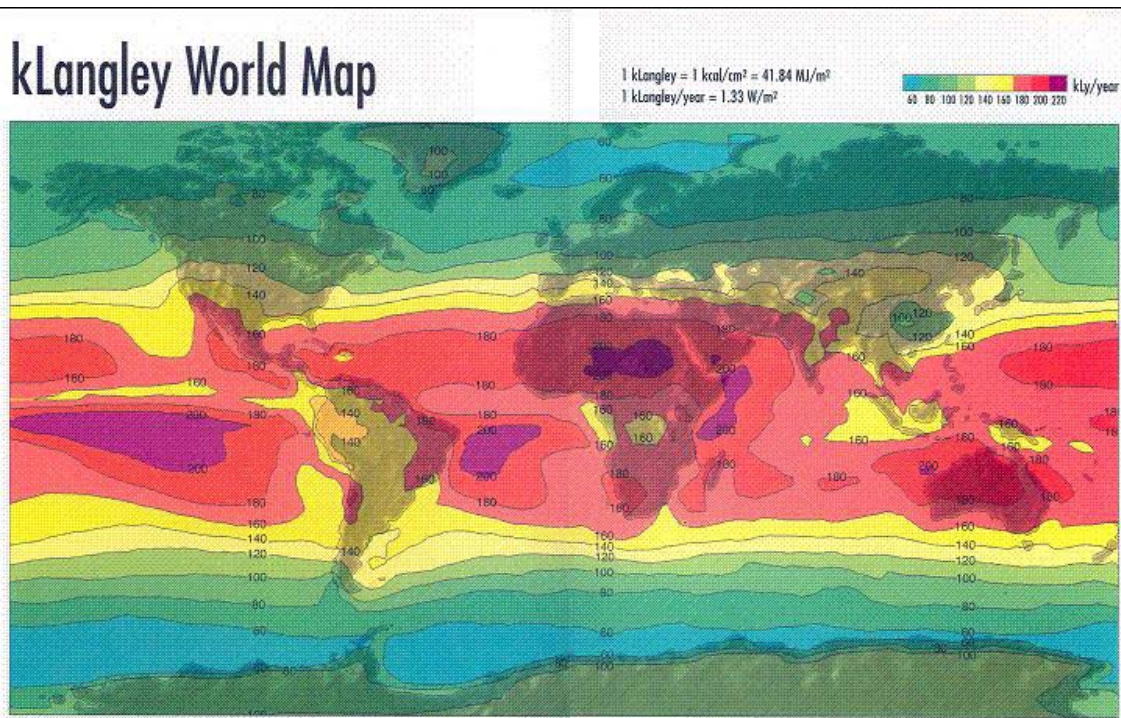
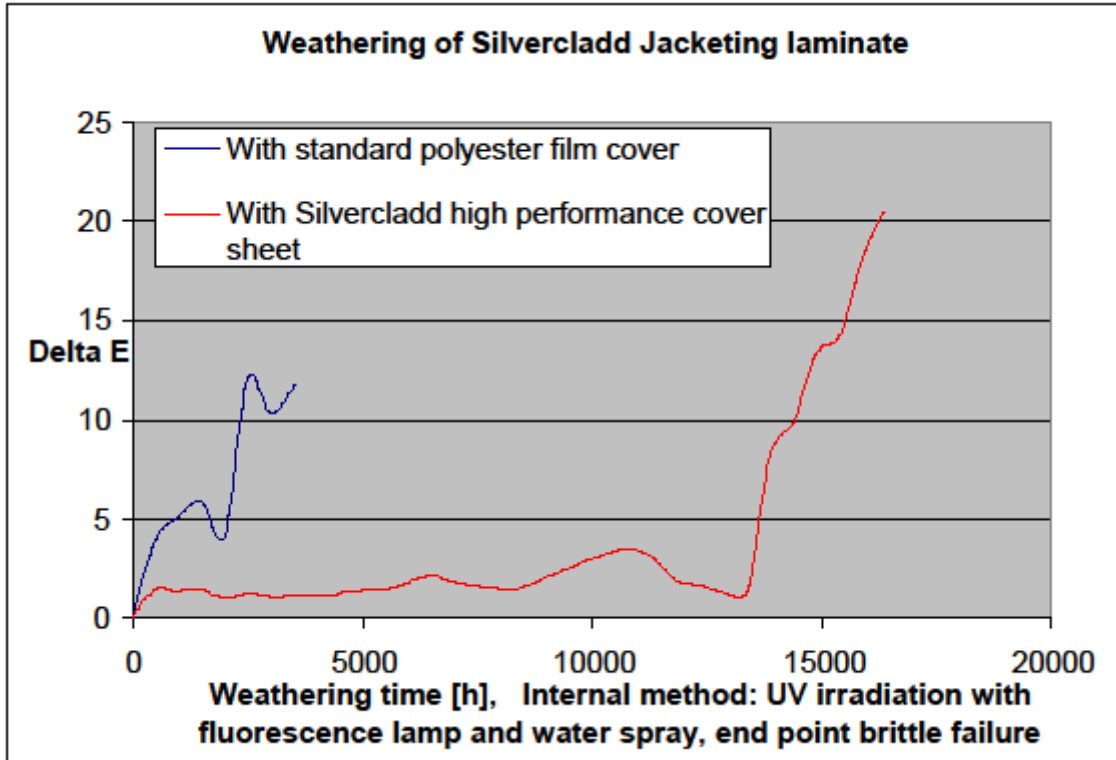
- UV-protection
- Aluminium, glossy
- PVC, fire-retardant

Technical Data:

Total weight:	approx.	512 g/m ²	EN 22 286
Thickness:	approx.	350µm	
Tensile strength:	MD	290 N//15 mm	EN ISO 527-3
	CD	250 N/15 mm	EN ISO 527-3
Elongation:	MD	35%	EN ISO 527-3
	CD	30%	EN ISO 527-4
Tear strength:	MD	90 N	EN ISO 527-5
	CD	70 N	EN ISO 527-6
Puncture 0.8mm:		28 N	prEN 14 477
Puncture 3.0mm:		116 N	prEN 14 477
Nail tear strength:	MD	63 N	EN 12310-1
	CD	83 N	EN 12310-1
Limited oxygen indication (LOI):		35.5 % O ²	ASTM D 2863-77
			ISO 4589
UV - light resistance testing:			ASTM G 26A
			ISO 4892-2
Water vapor permeability (WVTR):		< 0.03 g/m ² /d	ISO15106-2
Sd-value:		> 1,300 m	
Emission ratio:		approx. 94 %	
Temperature resistance:		-25 to +75 °C	
Fire class:		Class 0	BS 476, part 6 & 7
		Class 1	UL 94 V
		B1	DIN 4102-1
Radiant panel index:		0.37	ASTM E162-02
Flaming mode 1.5 min.		1	ASTM E162-03
Flaming mode 4 min.		3	ASTM E162-03
Non-flaming mode 1.5 min.		0	ASTM E162-03
Non-flaming mode 4 min.		0	ASTM E162-03



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Chemical Resistance

Acetaldehyde	resistant
Formaldehyde	resistant
Benzyl alcohol	cond. res.
Ethanol	resistant
Ethylene glycol	resistant
Chloroform	cond. res.
Ethyl acetate	resistant
Gasoline (petrol)	resistant
Petroleum	resistant
Toluene	resistant
Alkali carbonates	resistant
Cyanides	resistant
Fluorides	resistant
Ammonia hydroxide	not resistant
Formic acid 50%	resistant
Acetic acid (any concentr.)	resistant
Hydrofluoric acid (10-35%)	resistant
Phosphoric acid (30-85%)	resistant
Nitric acid (10%)	resistant
Nitric acid (65 – 100%)	not resistant
Hydrochloric acid (10%)	resistant
Hydrochloric acid (30%)	cond. res.
Sulfur dioxide gas, dry	resistant
Sulfuric acid, 20%	cond. res.
Sulfuric acid, >80%	not resistant
Acetone	resistant
Ether	resistant
Nitrobenzene	not resistant



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TYPE	SURFACE	CURLING EFFECT	THICKNESS	TEMPERATURE RANGE	TENSILE STRENGTH	PUNCTURE d = 0.8 mm	Puncture d = 3.0 mm	WVTR WATER VAPOUR PERMEABILITY
			mm	°C	N/15mm	N	N	g/m ² /d
350c	plain	yes	0.35	-25 to +75	250 - 290	28	116	< 0.03
350f	plain	no	0.35	-25 to +75	251 - 290	28	116	< 0.03
350s	stucco	no	0.35	-25 to +75	252 - 290	28	116	< 0.03
230c	plain	yes	0.23	-25 to +75	175 - 200	23	87	< 0.03
230f	plain	no	0.23	-25 to +75	176 - 200	23	87	< 0.03
220f	plain	no	0.22	-40 to +120	970 - 1200	45	170	< 0.03

UV - LIGHT RESISTANCE TESTING	INDEPENDENT FIRE TESTING						
	LOI %/O ₂	DIN 4102	BS 476 Part 6 & 7	ASTM E162-02e Radiant Panel Index	ASTM 662-03 Flaming Mode Ds = 4 min	ASTM 662-03 Flaming Mode Ds = 1.5 min	UL 94 V
ISO 4892	35.5	B1	Class O	0.37	3	1	Class 1
ISO 4892	35.5	B1	Class O	0.37	3	1	Class 1
ISO 4892	35.5	B1	Class O	0.37	3	1	Class 1
ISO 4892	35.5	-	-	0.50	3	1	-
ISO 4892	35.5	-	-	0.50	3	1	-
ISO 4892	40.0	-	-	0.59	2	0	-

