

TRASPIR ALU 200

REFLECTIVE HIGHLY BREATHABLE MEMBRANE



COMPOSITION

- ① coating: perforated aluminium foil
- ② reinforcing layer: reinforcing PL grid
- ③ top layer: non-woven PP fabric
- ④ middle layer: PL breathable film
- ⑤ bottom layer: non-woven PP fabric



TECHNICAL DATA

Properties	standard	value	USC units
Mass per unit area	EN 1849-2	200 g/m ²	0.66 oz/ft ²
Thickness	EN 1849-2	0,8 mm	31 mil
Water vapour transmission (Sd)	EN 1931	0,045 m	78 US Perm
Tensile strength MD/CD	EN 12311-1	350/225 N/50 mm	40/26 lbf/in
Elongation MD/CD	EN 12311-1	5/4 %	-
Resistance to nail tearing MD/CD	EN 12310-1	200/200 N	45/45 lbf
Watertightness	EN 1928	class W1	-
After ageing:			
- watertightness	EN 1297/EN 1928	class W1	-
- tensile strength MD/CD	EN 1297/EN 12311-1	330/175 N/50 mm	38/20 lbf/in
- elongation	EN 1297/EN 12311-1	4/4 %	-
Reaction to fire	EN 13501-1	class E	-
Resistance to penetration of air	EN 12114	< 0,02 m ³ /(m ² h50Pa)	< 0.001 cfm/ft ² at 50Pa
Flexibility at low temperatures	EN 1109	-30 °C	-22 °F
Resistance to temperature	-	-40/80 °C	-40/176 °F
UV stability ⁽¹⁾	EN 13859-1/2	336h (3 months)	-
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 250 kg/m ³	approx. 16 lbm/ft ³
Water vapour resistance factor (μ)	-	approx. 60	approx. 0.22 MNs/g
VOC	-	not relevant	-
Reflectivity	EN 15976	95 %	-
Equivalent thermal resistance with 50 mm air gap (ε _{other surface} 0,025-0,88)	ISO 6946	R _{g,0,025} : 0,821 (m ² K)/W R _{g,0,88} : 0,731 (m ² K)/W	4.66 h·ft ² ·°F/BTU 4.15 h·ft ² ·°F/BTU
Driving rain test	TU Berlin	passed	-

⁽¹⁾ Laboratory ageing test data cannot reproduce unforeseeable causes of the product's degradation, or consider the stresses to which it will be subjected during its service life. To ensure its integrity, as a precautionary measure, exposure to weathering during construction should be limited to a maximum of 4 weeks.

Waste classification (2014/955/EU): 17 09 04.



PROTECTION FROM ELECTROMAGNETIC POLLUTION

Tests conducted on TRASPIR ALU 200 demonstrated that thanks to its aluminium layer, the product acts as a shield against electromagnetic waves. The measured value exceeds 20 dB, therefore the shielding effect of the power flow density is more than 99%.

Shielding effect of flow density in %
dB

> 99%



25 – 74 dB ELECTROBIOLOGY

CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m ²]	H [ft]	L [ft]	A [ft ²]	
TTTALU200	TRASPIR ALU 200 TT	TT	1,5	50	75	5	164	807	25