

TRASPIR 135

HIGHLY BREATHABLE MEMBRANE



COMPOSITION

top layer
non-woven PP fabric

middle layer
PP breathable film

bottom layer
non-woven PP fabric

TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	135 g/m ²	0.44 oz/ft ²
Thickness	EN 1849-2	0,6 mm	24 mil
Water vapour transmission (Sd)	EN 1931	0,02 m	174.825 US perm
Maximum tensile force MD/CD	EN 12311-1	280 / 190 N/50mm	32 / 22 lb/in
Elongation MD/CD	EN 12311-1	70 / 110 %	-
Resistance to nail tearing MD/CD	EN 12310-1	135 / 170 N	30 / 38 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
Reaction to fire	EN 13501-1	class E	-
Surface combustion characteristic	ASTM E84	class 1 or class A	-
Resistance to penetration of air	EN 12114	< 0,05 m ³ /(m ² h50Pa)	< 0.003 cfm/ft ² at 50Pa
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 225 kg/m ³	approx. 0.13 oz/in ³
Water vapour resistance factor (μ)	-	approx. 33	approx. 0.1 MNs/g
VOC content	-	0 %	-
UV stability ⁽¹⁾	EN 13859-1/2	3 months	-
Exposure to weather ⁽¹⁾	-	2 weeks	-
Water column	ISO 811	> 250 cm	> 98 in
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	250 / 160 N/50mm	29 / 18 lb/in
- elongation	EN 1297 / EN 12311-1	50 / 50 %	-
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F

⁽¹⁾ For the correlation between laboratory tests and actual conditions, see page 199.

CODES AND DIMENSIONS

CODE	description	tape	H	L	A	H	L	A	
			[m]	[m]	[m ²]	[ft]	[ft]	[ft ²]	
T135	TRASPIR 135	-	1,5	50	75	5	164	807	28
TTT135	TRASPIR 135 TT	TT	1,5	50	75	5	164	807	28