

### Breather Membranes Comparison Chart

COMPANY	PRODUCT	MAKE	BASE WEIGHT, gm.sq This indicates how much the product weighs in grams per metre squared. It does not indicate performance. NOTE: Performance is not determined by weight alone (in the same way that steel and tungsten compare)	TENSILE MD/CD, mean N This test shows how easy it is to rip the membrane. The higher the number the better the performance. NOTE: Tensile strength has to be matched by nail tear resistance to show true performance**	ELONGATION MD/CD, mean% This test shows the percentage of flexibility before the membrane breaks and is a good indicator of how easy the membrane is to work with before failure occurs**	MAIL TEAR STRENGTH mD/CD mean N This test shows the real strength of the product and indicates how much pressure is required to pull a nail through the membrane. It is measured in Newtons**	MVTR, gm.sq/24hr Water vapour permeability This test indicates how much moisture (under test conditions) can pass through 1m.sq in 24hrs which is the main function of a breather membrane. The higher the better.	WATER TIGHTNESS, cm H2O This test shows the membranes ability to keep water out of the roof (a pass means it was only tested to 100cm). This test is a good indicator of how good the functional film is when compared with the vapour permeability (i.e lets moisture out yet stops water getting back in). Some air permeable or low resistant membranes can suffer from the reverse affect that stops them working properly	VAPOUR RESISTANCE, MNs/g-1 Because the results of the water vapour permeability test can vary (due to the conditions created) the government has chosen this more reliable test as its bench mark and all breathers must be below 0.25MNs/g-1. Independent tests indicate that 0.16MNs/g-1 should be achieved but generally the lower the better.
PERMAVENT	<b>ECO</b>	THERMO	90	161.5	70.5	159.5	1960	527	0.11
PERMAVENT	<b>PERMAVENT</b>	THERMO	115	208	111.5	161.5	1373	>450	0.15
PERMAVENT	<b>MAX</b>	THERMO	140	254.5	93	180	1343	>600	0.15
CHESTER FELT	<i>Active</i>	N/A	155	N/A	N/A	N/A	1308	533	0.15
CHESTER FELT	<i>Rapid</i>	N/A	120	182	29.5	109.5	1552	521	0.13
CROMAR	<i>Vent 3</i>	THERMO	130	248	83.5	258	1176	591	0.17
DALTEX	<i>RoofTX Maxi</i>	THERMO	165	253.5	37	267.5	1387	589	0.15
DALTEX	<i>RoofTX</i>	THERMO	125	6.35*	40.5*	100	1020	pass	0.2
DUPONT	<i>Tyvek Supro</i>	GLUED	145	275.5	21	125	935	237	0.22
DUPONT	<i>DB2112</i>	THERMO	112	204	78.5	231	1151	463	0.18
DUPONT	<i>DB2130</i>	THERMO	130	248	83.5	258	1176	591	0.17
ICOPAL	<i>Monaperm700</i>	THERMO	140	197.5	32.5	85	1194	731	0.17
KLOBER	<i>Permo Forte</i>	GLUED	175	324	15.5	156	1034	>200	0.2
KNAUF	<i>Breathline</i>	THERMO	140	205.5	36	84	935	100 pass	0.22
LAFARGE	<i>Spirtech250</i>	GLUED	151	389	15.85	330	1301	620	0.16
MERCURY	<i>VapRfree Plus</i>	THERMO	130	248	83.5	258	1176	591	0.17
MERCURY	<i>VapRfree</i>	THERMO	112	204.5	78.5	231	1151	463	0.18
PROCTOR	<i>Roofshield</i>	THERMO	175	230	37.5	143.5	2409	114	0.09
RUBEROID	<i>Rubershield Pro</i>	THERMO	160	281.5	80.5	176.5	1542	449	0.13
WEB DYNAMICS	<i>Web UV10</i>	THERMO	112	197.5	60	75	983	452	0.21
WEB DYNAMICS	<i>WebUV15</i>	THERMO	130	220	60	100	1079	670	0.19
WEB DYNAMICS	<i>Web UV26</i>	THERMO	165	290	55	172	975	878	0.21

\* The reading given is not directly comparable

\*\* Tensile, Elongation and Nail Tear Strength properties are obtained by measuring along its length and across its width. This often gives two different results. To help with understanding this table we have added both of these readings together and divided by 2 to give a mean average. Both of these figures are easily obtainable at [www.bbacerts.co.uk](http://www.bbacerts.co.uk)

For comparison reasons breather membranes with identical properties are grouped together.

	DUPONT DB2112, EBC (Global2)	CHESTERFELT ACTIVE, TDP breather 120
DALTEX ROOFTX MAXI, Marley(Super)	DUPONT DB2130, Kingspan (Nilvent)	CHESTERFELT RAPID, TDP breather 150
DALTEX ROOFTX, Ubbink(Multi vap), Alumaflex, Harcon(VPU), Powerlon(Ultraperm), VSL(Ventaflex), Griltex(Forst STX), Marley(LW)		

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