

ALVATECH 5002 is manufactured by SOTRAFA SA (El Ejido, Almería), a company of the Armando Alvarez Group.

ALVATECH 5002 is a High-Density Polyethylene liner, available in 5,8m and 7,5m and manufactured with the last cast system technology.

SOTRAFA certifies that HDPE Geomembrane (ALVATECH 5002) satisfactorily meets Standard GRI GM-13.

PROPERTIES	UNIT	HDPE GEOMEMBRANE (ALVATECH 5002)						Test Method
		Geo. 0.75	Geo. 1.0	Geo. 1.5	Geo. 2.0	Geo. 2.5	Geo. 3.0	
Thickness (minimum average)	mm	0.75	1.00	1.50	2.00	2.50	3.00	ASTM D 5199
• Lowest individual of 10 values		- 10%	-10%	-10%	-10%	-10%	-10%	
Density with Carbon Black	g/cm ³	≥ 0.940	≥ 0.940	≥ 0.940	≥ 0.940	≥ 0.940	≥ 0.940	ASTM D 1505
Yield Strength (1)	kN/m	12 (≥ 11)	16 (≥ 15)	24 (≥ 22)	32 (≥ 29)	40 (≥ 37)	48 (≥ 44)	ASTM D 6693
Break Strength (1)	kN/m	23 (≥ 20)	30 (≥ 27)	45 (≥ 40)	60 (≥ 53)	75 (≥ 67)	90 (≥ 80)	
Yield Elongation (1)	%	13 (≥ 12)	13 (≥ 12)	13 (≥ 12)	13 (≥ 12)	13 (≥ 12)	13 (≥ 12)	
Break Elongation (1)	%	730 (≥ 700)	800 (≥ 700)	800 (≥ 700)	800 (≥ 700)	800 (≥ 700)	800 (≥ 700)	
Tear Resistance (1)	N	100 (≥ 93)	145 (≥ 125)	215 (≥ 187)	290 (≥ 249)	365 (≥ 311)	435 (≥ 374)	ASTM D 1004
Puncture Resistance (2)	N	340 (≥ 240)	440 (≥ 320)	550 (≥ 480)	670 (≥ 640)	830 (≥ 800)	980 (≥ 960)	ASTM D 4833
Stress Crack Resistance (SP-NCTL)	h	≥ 500						ASTM D 5397
Carbon Black								
Carbon Black Content	%	2 - 3						ASTM D 4218
Carbon Black Dispersion	Category	1 - 2						ASTM D 5596
Oxidative Induction Time (3)								
Standard OIT	min	≥ 100						ASTM D 8117
--- or ---								
HPOIT		≥ 400						ASTM D 5885
OVEN AGING AT 85 ° C (3)								
Standard OIT - % retained after 90 days	% retained	≥ 55						ASTM D 5721 ASTM D 8117
--- or ---								
HPOIT - % retained after 90 days		≥ 80						ASTM D 5885
U.V. RESISTANCE								
High Pressure OIT - % retained after 1600 hours.	% retained	≥ 50						ASTM D7238 ASTM D5885

(1) Both directions (machine direction and cross machine direction) (2) Both sides. (3) Sotrafa reserves the right to test the antioxidant content with different oxidative induction time methods.

All the values are nominal. Those values between parentheses are the minimum ones required by the norm GM-13.

We manufacture HDPE, LLDPE and VLDPE geomembranes with thickness between 0,75mm and 3mm, smooth or structured sheets.

This Information is provided for reference purposes only. The values are not guaranteed. SOTRAFA is not responsible for improper use of this information or for the final use of the product if that use is not the normal application of the geomembrane. This information is subject to change without prior notice. Please contact SOTRAFA for any updated information.