CarbonBlock Geomembrane



Hydrocarbon Membrane (HCM) Barrier

Tested Property

Geomembrane sheet manufactured from high quality polythene resin, the membrane prevents the ingress of latent hydrocarbons into a development. Typical uses are contaminated land and old petrol stations.

Test Method

resteu Property	rest method		rest values	
	ASTM	Industry Standard 1.00mm	1.50mm	2.00mm
Thickness - mm (min ave.)				
Lowest individual of 10 values	D 5199	-10%	-10%	-10%
Density (min.)	D 1505/D 792	0.940 g/cm ³	0.940 g/cm ³	0.940 g/cm ³
Tensile Properties (min. ave.)	D 6693 Type IV			
• Yield strength		15 N/mm	22 N/mm	29 N/mm
Break strength	a	27 N/mm	40 N/mm	53 N/mm
Yield elongation Prock elongation	GL = 33mm GL = 50mm	12% 700%	12% 700%	12% 700%
Break elongation To British (1): The Brit				
Tear Resistance (min. ave.)	D 1004	125 N	187 N	249 N
Puncture Resistance (min. ave.)	D 4833	320 N	480 N	640 N
Stress Crack Resistance	D 5397	300 hr.	300 hr.	300 hr.
Carbon Black Content - %	D 1603	2.0-3.0%	2.0-3.0%	2.0-3.0%
Carbon Black Dispersion	D 5596	9 in Category 1 or 2 and 1 in Category 3		
Reference Property	Test Method	Test Values		
	ASTM	1.00mm	1.50mm	2.00mm
Melt Flow Index	D 1238. Cond. 190° C/2.16kg	≤1.0 g/10 min	≤1.0 g/10 min	≤1.0 g/10 min
Oxidative Industion Time (OIT) (min. ave.)	D 3895. 200°c, Pure O ₂ , 1 atm	≥100 min	≥100 min	≥100 min
Oven Aging at 85°C • Standard OIT (min. ave.) % Retained after 90 days	D 5721 D 3895	≥55%	≥55%	≥55%
 High Pressure OIT (min. ave.) retained after 90 days 	D 5885	≥80%	≥80%	≥80%
UV Resistance • High Pressure OIT (min. ave.) - % retained after 1600 hrs	D 5885	≥50%	≥50%	≥50%
Physical Properties	Units	Physical Values		
Roll Size (W X L) ¹	m	5.8 x 100	6.95 x 140	7.5 x 105
Doll Waight	17	500	1.400	1576
Roll Weight	Kg	600	1460	1576

Note

This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentation. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge becomes available. Since we cannot anticipate all variations in actual end use conditions, Geosynthetics Limited makes no warranties and assumes no liabilities in connection with this information. Nothing in this publication is to be considered as a licence to operate under or a recommendation to infringe any patent right.

^{1.} Roll sizes can vary depending on production: Please confirm sizes and weights prior to ordering.