



Geosynthetics

VoltBlock Geomembrane

Di-electric Barrier

Geomembrane sheet manufactured from high quality polythene resin, the membrane prevents stray current from migrating through the platform to end users/passengers. Typical uses are platforms in new or re-developed stations.

Tested Property	Test Method	
	ASTM	Industry Standard 2.00mm
Thickness - mm (min ave.) • Lowest individual of 10 values	D 5199	-10%
Density (min.)	D 1505/D 792	0.940 g/cm ³
Tensile Properties (min. ave.) • Yield strength • Break strength • Yield elongation • Break elongation	D 6693 Type IV GL = 33mm GL = 50mm	29 N/mm 53 N/mm 12% 700%
Tear Resistance (min. ave.)	D 1004	249 N
Puncture Resistance (min. ave.)	D 4833	640 N
Stress Crack Resistance	D 5397	300 hr.
Carbon Black Content - %	D 1603	2.0-3.0%
Carbon Black Dispersion	D 5596	9 in Category 1 or 2 and 1 in Category 3
Reference Property	Test Method	
	ASTM	2.00mm
Melt Flow Index	D 1238. Cond. 190° C/2.16kg	≤1.0 g/10 min
Oxidative Induction Time (OIT) (min. ave.)	D 3895. 200°C, Pure O ₂ , 1 atm	≥100 min
Oven Aging at 85°C • Standard OIT (min. ave.) % Retained after 90 days	D 5721 D 3895	≥55%
• High Pressure OIT (min. ave.) % retained after 90 days	D 5885	≥80%
UV Resistance • High Pressure OIT (min. ave.) - % retained after 1600 hrs	D 5885	≥50%
Physical Properties	Units	
Roll Size (W X L) ¹	m	7.5 x 105
Roll Weight	Kg	1576

Notes

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

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.

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