Geosynthetics Limited Tel: 01455 617 139 Fax: 01455 617 140 Email: sales@geosyn.co.uk

VoltBlock Geomembrane

Geosynthetics

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 Industion 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 • High Pressure OIT (min. ave.) % retained after 90 days	D 5721 D 3895 D 5885	 ≥55% ≥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.

DR: 30/V1/19.11.13