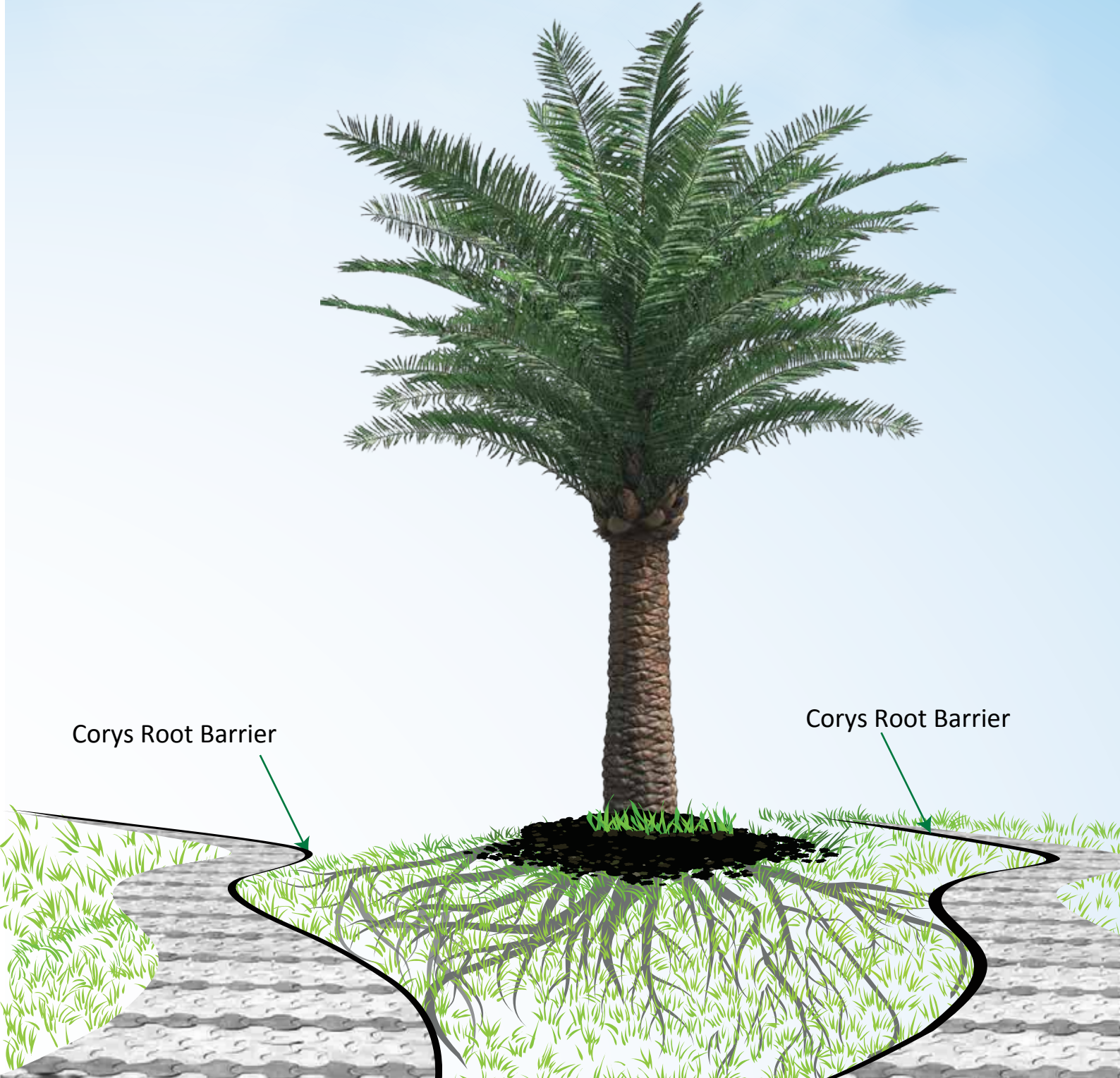


# Corys Root Barrier



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Corys Geosynthetics offers inexpensive polymeric sheets ranging from 1mm to 3mm thick for Root Barrier applications.

Corys Root Barrier sheets are double side smooth high density membrane produced from specially formulated from polyethylene resins which contains 97.5% virgin polyethylene and 2.5% of carbon black with stabilizations package enriched with anti-oxidants to provide good mechanical properties, stress crack resistance, dimensional stability, thermal aging and chemical resistant characteristics.

Corys Root Barrier sheets are manufactured according to International standards under constant quantity control procedures.

Corys Root Barrier sheets are installed under the ground to block roots and prevent roots reaching the foundation, drains, pipes, walking path etc. The purpose of installing the Root Barrier sheet is to maintain soil moisture and redirect the roots downwards.

Corys Root Barrier are designed to potentially stop the growth of roots that causes weakness, elevation, lowering or breakage in structure and landscape.



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Corys Root Barriers are high quality heavy duty polymeric HDPE plastic sheets suitable to use in blocking even the strongest tree roots and redirect them downwards, thereby preventing the breakage of structures / drains / Pipes / cables / walking paths etc.

**Metric Units**

**CORYS HDPE ROOT BARRIER TECHNICAL DATA SHEET**

CGSHDSB15

Properties	Test Method	Frequency	Units	Values		
				CGSRB	CGSRB	CGSRB
				1.00 mm	1.50 mm	2.00 mm
<b>Thickness</b> ➤ Minimum Avg. Value	ASTM D 5199	Every Roll	mm	1.00	1.50	2.00
<b>Density</b> (min. ave.)	ASTM D 1505	90,000 Kg	g/cc	0.942	0.942	0.942
<b>Tensile Properties<sup>1</sup></b> (min. ave.) ➤ Strength at yield ➤ Strength at break ➤ Elongation at yield (gauge length 33mm) ➤ Elongation at break (gauge length 50mm)	ASTM D 6693 Type IV (@50 mm/min.)	9,000 Kg	kN/m kN/m % %	15 27 12 640	22 40 12 640	29 53 12 640
<b>Tear Resistance</b> (min. ave.)	ASTM D 1004	20,000 Kg	N	125	187	249
<b>Puncture Resistance</b> (min. ave.)	ASTM D 4833	20,000 Kg	N	320	480	640
<b>Stress Crack Resistance (NCTL)<sup>2</sup></b>	ASTM D 5397 GRI GM 10	Per Formulation	hrs.	≥500	≥500	≥500
<b>Carbon Black Content</b>	ASTM D 1603	9,000 Kg	%	2.0 – 3.0	2.0 – 3.0	2.0 – 3.0
<b>Carbon Black Dispersion</b>	ASTM D 5596	20,000 Kg	Category	Note 3*	Note 3*	Note 3*
<b>Oxidative Induction Time (OIT)</b> ➤ Standard OIT or ➤ High Pressure OIT	ASTM D 3895 ASTM D 5885	90,000 Kg	min. min.	≥100 ≥400	≥100 ≥400	≥100 ≥400
<b>UV Resistance Note<sup>4</sup>*</b> ➤ High pressure OIT Note <sup>5</sup> *. % Retained after 1600 hrs (min. ave.)	GRI GM 11 ASTM D 5885	Per Formulation	%	50	50	50
<b>Chemical Resistance</b>	EN 14030	Excellent resistance to common Chemicals				
<b>Rodent Resistance</b>	OENORNS2073	Full Filled				
<b>Resistance to Microbial Attack</b>	BSEN125:2000	Pass				
<b>Resistance to Root</b>	CEN/TS 14416:2014	Pass				

*Note:*

- 1 Machine Direction (MD) and Transverse Direction (TD) average values are on the basis of 5 specimens each direction.
- 2 The yield stress used to calculate the applied load for the SP-NCTL test should be the mean value via MQC testing.
- 3 Carbon Black Dispersion for 10 different views: 9 in Categories 1 and 2 with 1 allowed in Category 3.
- 4 The condition of the test should be 20 hr. UV cycle at 75°C followed by 4 hr. condensation at 60°C.
- 5 UV resistance is based on percent retained value regardless of the original HP-OIT value.

This data is provided for informational purpose only. The specifications on this sheet are subject to change without notice.

# Corys Geosynthetics other range of products

## Geomembranes



Corys Geosynthetics branded HDPE, LLDPE, FPP, TPO and VLDPE liners. 0.75 mm to 3.00mm thickness in both smooth and textured form.

## Geotextiles



Corys Geosynthetics offers high quality woven, non-woven, needle-punched, thermally bonded geotextiles manufactured from polypropylene and polyester.

## Geogrids



Corys Geosynthetics offers both biaxial and uniaxial geogrids manufactured from polypropylene and PVC coated polyester yarns

## Geocell



Corys Geosynthetics geocell products are three-dimensional, expandable panels made from high-density polyethylene (HDPE), polyester or other polymer materials.

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