

Greenfix Rootbarrier 400 Impermeable Rootbarrier

Application and Benefits

Greenfix Rootbarrier 400 consists of a woven HDPE base material which is reinforced and coated with a triple layer of LDPE. The membrane is UV stabilised and suitable for outdoor applications.

Rootbarrier 400 is available in rolls 1.83m x 50m or in site specific pre-welded panels up to 25m wide and 300m long.

Product Characteristics

Physical Form	Woven HDPE Coated on both sides with LDPE film
Weight (ASTM D5261)	244gms/m ²
Strip Tensile Strength (ASTM D7003)	MD 1199 TD 1154 N/5cm
Grab Tensile (ASTM D 7004)	MD 932 TD 844 N
Tongue Tear-large scale (ASTM D5884)	MD 266TD 226 N
Mullen Burst (ASTM D751)	2584 kPA
CBR Puncture (ASTM D6241)	4094 N
Puncture-Resistance (ASTM D4833)	502 N
Hydrostatic Resistance (ASTM D751)	668 kPA
Carbon Black Content (ASTM D751)	3%
Permeability / Hydraulic Conductivity (calculated from MVTR)	5.42 x 10 ⁻¹⁵ cm/s
Dimensional Stability (ASTM D1204)	MD - 2.3% TD -2.0%
MVTR (ASTM E96 Proc. BW)	0.2g/m ² - 24hr (0.03 perms)
Resistance to Roots (EN 14416)	Pass
Resistance to Light Penetration (ASTM D6567)	0% Penetration - Pass
Low Temperature Flex (ASTM D2136)	MD & TD Pass @ -40oC (-40oF)
a) HP - OIT (ASTM D5885) Measured on coating formulation	2122 minutes
Acceleration UV Weathering* (ASTM G151 / ASTM G154)	>90% tensile strength retention after 2000 light hours @ 0.77 w/m ² /nm or 1200 hrs exposure @ 1.35 w/m ² /nm