

## Rootbarrier 400

### Description

Rootbarrier 400 root barrier consists of a woven HDPE (High Density Polyethylene)

Base material which is reinforced and coated with a triple layer film of LDPE (Low Density Polyethylene). Available in green as standard and blue, orange and white to order. The Membrane is UV stabilised and suitable for outdoor applications.



Available in 205cm x 200m and 102.5cm x 100m rolls or client specific sized pre-welded panels.

Item	Values	Test Method
Weight	240g/m <sup>2</sup>	UNI EN 1849-2
Thickness	0.4mm	UNI EN 1849-2
Tensile strength MD	22.22kN/m	UNI EN ISO 1421
Tensile strength CMD	20.00kN/m	UNI EN ISO 1421
Elongation at maximum load MD	18%	UNI EN ISO 1421
Elongation at maximum load CMD	18.10%	UNI EN ISO 1421
Static puncture resistance	2.72kN	UNI EN ISO 12236
Shear strength of joints	553N	UNI EN ISO 12317-2
Temperature resistance (Range)	- 30°C + 70°C	
UV resistance (Grade)	360 kLy	DIN 54004
Liquid Permeability	< 10 <sup>-6</sup> [m <sup>3</sup> ·m <sup>-2</sup> ·d <sup>-1</sup> ]	UNI EN 14150
Methane Gas Permeability	1.41E-03 [m <sup>3</sup> m <sup>-2</sup> ·day·atm]	ASTM D 1434, Method V
Carbon Dioxide Gas Permeability	6.67E-03 [m <sup>3</sup> m <sup>-2</sup> ·day·atm]	ASTM D 1434, Method V
Moisture Permeability	1.32 · 10 <sup>-14</sup> [m s <sup>-1</sup> ]	UNI EN 1931
Resistance to weathering	Variation of tensile strength and tensile elongation <25%	UNI EN 12224
Resistance to oxidation	Variation of tensile strength and tensile elongation <25%	UNI EN 14575

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