



GENERAL DESCRIPTION

Root Stop HD is a smooth, high quality high-density polyethylene (HDPE) geo-membrane produced from specially formulated, virgin polyethylene resin.

BASIC USE

Root Stop HD is designed to be used as a heavy-duty root barrier for the MM 6125®EV-FR roofing membrane as part of Hydrotech’s Garden Roof® Assembly. Root Stop HD is especially designed for use in semi-intensive applications with perennials **and** woody plants, intensive applications with woody plants, tree wells, planters with woody plants, and foundation wall applications to control tree roots. Root Stop HD is loose laid over Hydroflex®30, lapped 1 foot with the lap edges taped with Root Stop Tape.

ADVANTAGES

- Outstanding chemical resistance
- Dimensionally stable

TECHNICAL SPECIFICATIONS

Root Stop HD is available in rolls 15 feet (5.45 m) wide by 100 feet (36.3 m) long for a full roll (1386 sqft effective coverage) and 50 feet (18.1 m) long for a half roll (636 sqft effective coverage).

PROPERTY	TEST METHOD	RESULT
THICKNESS mils (mm)	ASTM D5199	27 (0.69)
WEIGHT lb/ft ² (kg/m ²)	ASTM D1505	0.17 (0.83)
TENSILE PROPERTIES (each direction)	ASTM D6693, Type IV Dumbell, 2 ipm	
STRENGTH @BREAK lb/in-width (N/mm)		122 (21)
STRENGTH @ YIELD lb/in-width (N/mm)		63 (11)
ELONGATION @ BREAK %	G.L. 2.0 in (51 mm)	700
ELONGATION @ YIELD %	G.L. 1.3 in (33 mm)	13
TEAR RESISTANCE lb (N)	ASTM D1004	21 (93)
PUNCTURE RESISTANCE lb (N)	ASTM D4833	59 (263)
CARBON BLACK CONTENT %	ASTM D1603	2.0
CARBON BLACK DISPERSION	ASTM D5596	Note 1
NOTCHED CONSTANT TENSILE LOAD hrs.	ASTM D5397, Appendix	400
OXIDATIVE INDUCTION TIME min.	ASTM D3895, 200 _i , O ₂ , 1 atm	>100

NOTES:

1. Dispersion only applies to near spherical agglomerates. 9 of 10 views shall be Category 1 or 2. No more than 1 view from Category 3
2. Root Stop membranes have dimensional stability of ±2% when tested with ASTM D 1204 and L TB of <-77_i C when tested with ASTM D 746