

PARAGREEN™ ROOT BARRIER

Commercial Product Data Sheet



ParaGREEN™ Root Barrier is designed for use in conjunction with Siplast ParaGREEN Vegetated Roof Systems and helps provide protection against root penetration. It is composed of high density polyethylene, with thicknesses and textures to meet design requirements for particular vegetated roof installations. Siplast advises against the specification of plants with aggressive roots on a structure, over Siplast membranes.

Contact Siplast for information on approved product uses.

USES: VEGETATED SYSTEMS

Color	Black
Ambient Range at Time of Application	32°F - 104°F (0°C – 40°C)

LEED Information

Recycled Content (% by weight)	Manufacture Location
0%	Houston, TX

PRODUCT INFORMATION

Application

ParaGREEN Root Barrier seams may be heat welded or overlapped 18 inches and held together using ParaGREEN Root Barrier Tape. Refer to the ParaGREEN Installation Guidelines for detailed application information.



Storage and Handling

All Siplast ParaGREEN products should be stored on a clean, flat surface. All roofing products should be stored in a dry place, in a manner that protects it from puncture, dirt, grease, moisture and excessive heat.

See product packaging and the Safety Data Sheet for specific information on the safe handling of this product.

PHYSICAL PROPERTIES

Property	Typical Values				Test Method
	20 mil	40 mil	60 mil	60 mil (Textured)	
Thickness (minimum)	20 mil (0.5 mm)	40 mil (1.0 mm)	60 mil (1.52 mm)	57 mil (1.44 mm)	ASTM D5199
Asperity Height	N/A	N/A	N/A	10 mil (0.25 mm)	ASTM D7466
Sheet Density	0.940 g/cc	0.940 g/cc	0.940 g/cc	0.940 g/cc	ASTM D1505 / ASTM D792
Roll Width	7.5 ft (2.3 m)	7.5 ft (2.3 m)	7.5 ft (2.3 m)	7.5 ft (2.3 m)	N/A
Roll Length	200 ft (61 m)	95 ft (29 m)	65 ft (20 m)	65 ft (20 m)	N/A
Coverage	1,200 ft ² (111.5 m ²)	570 ft ² (52.95 m ²)	465 ft ² (43.2 m ²)	465 ft ² (43.2 m ²)	N/A
Gross Weight (approx.)	150 lb (68 kg)	150 lb (68 kg)	151 lb (68.5 kg)	151 lb (68.5 kg)	N/A
Lap Treatment (width)	18 in (457 mm)	18 in (457 mm)	4 in (101 mm)	4 in (101 mm)	N/A
Lap Treatment (seam method)	Simple Overlap	Simple Overlap	Heat Weld	Heat Weld	N/A
Surface	Smooth	Smooth	Smooth	Textured one or both sides	N/A

MECHANICAL PROPERTIES

Property	Typical Values				Test Method
	20 mil	40 mil	60 mil	60 mil (Textured)	
*Yield Strength	42 lb/in	84 lb/in	126 lb/in	126 lb/in	ASTM D6693
*Break Strength	76 lb/in	152 lb/in	228 lb/in	90 lb/in	ASTM D6693
*Yield Elongation	13%	12%	12%	12%	ASTM D6693
*Break Elongation	700%	700%	700%	100%	ASTM D6693
Tear Resistance	14 lb	28 lb	42 lb	42 lb	ASTM D1004
Puncture Resistance	36 lb	72 lb	108 lb	90 lb	ASTM D4833
Shear Strength	n/a	80 lb/in	120 lb/in	120 lb/in	ASTM D6392 (@ 2 in/min)
Peel Strength – Heat Welded	n/a	60 lb/in	91 lb/in	90 lb/in	ASTM D6392 (@ 2 in/min)

*Machine direction (MD) and cross machine direction (XMD) average values should be on the basis of 5 test specimens each direction.
Yield elongation is calculated using a gauge length of 1.3 inches; Break elongation is calculated using a gauge length of 2.0 inches.