

PARABLOCK ROOT BARRIER



Commercial Product Data Sheet

Product Description

Parablock Root Barrier is a high performance root barrier designed for use in conjunction with Siplast Vegetated Roof Systems. Parablock is composed of high density polyethylene with thicknesses and textures to meet design requirements for particular vegetated roof installations. Parablock Root Barrier is placed directly on top of Siplast Teranap Membrane Systems prior to installation of the specified vegetated roof assembly. The lap joints of Parablock Root Barrier are either taped or heat sealed subject to product type and job conditions.

Storage and Handling

Parablock Root Barrier is shipped by flatbed trailer. It should be stored in a manner that protects it from puncture, dirt, grease, moisture and excessive heat.

Installation

Installation procedures should occur between ambient temperatures of 32°F and 104°F (0°C – 40°C). Installation should not be undertaken during any precipitation, in the presence of excessive moisture (e.g., fog, rain, dew) or in the presence of excessive winds.

Physical Properties

Property	Test Method	Minimum Average Values			
		20 mil	40 mil	60 mil	60 mil (textured)
Thickness, mils minimum average lowest individual reading lowest individual of 8 of 10 readings lowest individual of 10 readings	ASTM D 5199	20 (0.5 mm) 18 (0.45 mm)	40 (1.0 mm) 36 (0.91 mm)	60 (1.52 mm) 54 (1.37 mm)	57 (1.44 mm) 54 (1.37 mm) 51 (1.29 mm)
Asperity Height, mils	ASTM D 7466	N/A	N/A	N/A	10 (0.25 mm)
Sheet Density, g/cc	ASTM D 1505/D 792	0.940	0.940	0.940	0.940
Roll Dimensions 1. Width 2. Length 3. Coverage 4. Gross weight (lb approx.)		7.5 ft (2.3 m) 200 ft (61 m) 1,200 ft ² (111.5 m ²) 150 lb (68 kg)	7.5 ft (2.3 m) 95 ft (29 m) 570 ft ² (52.95 m ²) 150 lb (68 kg)	7.5 ft (2.3 m) 65 ft (20 m) 465 ft ² (43.2 m ²) 151 lb (68.5 kg)	7.5 ft (2.3 m) 65 ft (20 m) 465 ft ² (43.2 m ²) 151 lb (68.5 kg)
Lap treatment (width)		18 in (457 mm)	18 in (457 mm)	4 in (101 mm)	4 in (101 mm)
(seam method)		Parablock Tape	Parablock Tape	Heat Weld	Heat Weld
Color		Black	Black	Black	Black
Surface		Smooth	Smooth	Smooth	Textured one side or both sides

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Mechanical Properties

Property	Test Method	Minimum Average Values			
		20 mil	40 mil	60 mil	60 mil (textured)
Tensile Properties ¹	ASTM D 6693				
1. Yield Strength, lb/in		42	84	126	126
2. Break Strength, lb/in		76	152	228	90
3. Yield Elongation, %		13	12	12	12
4. Break Elongation, %		700	700	700	100
Tear Resistance, lb	ASTM D 1004	14	28	42	42
Puncture Resistance, lb	ASTM D 4833	36	72	108	90
Seam Properties	ASTM D 6392 (@ 2 in/min)				
1. Shear Strength, lb/in		N/A	80	120	120
2. Peel Strength, lb/in – Heat Welded		N/A	60	91	91

- 1 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.

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