

# **Technical Data Sheet**

### Description

Land Science Bond<sup>™</sup> is an 18-mil, reinforced polyethylene composite geomembrane used as a top layer, protection course in the Nitra-Seal<sup>®</sup> contaminant vapor barrier system. Designed to be protective and robust, Land Science Bond employs a 5 mil layer of polyethylene for additional chemical resistance in the Nitra-Seal system and is strengthened with a laminated geotextile. Land Science Bond is installed over the Nitra-Core<sup>™</sup> layer to complete the barrier and mechanically bond the Nitra-Seal system to the concrete slab.

#### Installation

Please refer to manufacturer specifications for all installation requirements. Land Science Bond is installed as the top layer of the Nitra-Seal vapor barrier system, atop the Nitra-Base+<sup>™</sup> and Nitra-Core layers.

Land Science Bond is installed over the nominally cured Nitra-Core layer with the geotextile facing up, and the seams are overlapped a minimum of 6".



## Packaging and Availability

Property	Value	
Dimension	8.5' x 150' rolls	
Weight	85 lbs	

Contact Land Science for a list of certified applicators.

## Land Science Bond Properties

Property	Test Method	Typical Value
Film Material	-	PE
Reinforcement Grid	-	-
Geotextile material	-	PP
Color	-	Gray/White
Weight	-	6.8 oz/sy
Composite Thickness	ASTM D5199	18 mil
Film Thickness	ASTM D5199	5 mil
Tensile Strength <sup>1</sup>	ASTM D751	170 lbs
Elongation <sup>1</sup>	ASTM D751	65%
Puncture Resistance	ASTM D4833	61 lbf
Tear Resistance <sup>1</sup>	ASTM D751	33 lbf

1. Values are an average of the machine direction and the transverse direction test results.

1011 Calle Sombra, San Clemente, CA 92673

Phone: (949) 481-8118

landsciencetech.com



🔰 in f 🕨 🖸

© 2022 All Rights Reserved. Nitra-Seal and Land Science are registered trademarks and Land Science Bond, Nitra-Core, and Nitra-Base+ are trademarks of REGENESIS Bioremediation Products. All other trademarks are property of their respective owners. Land Science Bond Technical Datasheet v2