



OptiStep™ 1000

**Polyethylene Foam
Floor Underlayment**

PHYSICAL PROPERTIES		TEST METHOD	UNIT	VALUE*
Nominal Foam Density		ASTM D3575	lb/ft ³	1.20
Nominal Product Thickness		ASTM D3575	inch	3/32
Compressive Strength	@ 25% deformation	ASTM D3575	psi	2.6
	@ 50% deformation			9.8
Tensile Strength	md	ASTM D3575	psi	61
	cd			26
Elongation	md	ASTM D3575	% @ Break	13
	cd			3
Tear Resistance	md	ASTM D3575	lbs/inch	9
	cd			14

The data presented for this product is for unfabricated Sealed Air brand products.

*While values shown are typical of this product they should not be construed as specification limits.

NOTE: Custom thickness, widths, lengths and colors are available upon special request.

Photo depicts hardwood flooring application.



OptiStep™ 1002

Polyethylene Foam
Floor Underlayment

PHYSICAL PROPERTIES	TEST METHOD	UNIT	VALUE*
Nominal Foam Density	ASTM D3575	lb/ft ³	1.7
Nominal Product Thickness	ASTM D3575	inch	1/8
Compressive Strength	ASTM D3575	psi	@ 25% deformation
			@ 50% deformation
Tensile Strength	ASTM D3575	psi	md
			cd
Elongation	ASTM D3575	% @ Break	md
			cd
Tear Resistance	ASTM D3575	lbs/inch	md
			cd
Impact Sound			
IIC	ASTM E492	dB	61
STC	ASTM E90	dB	54

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Photo depicts hardwood flooring application.



OptiStep™ 1003

Polyethylene Foam
Floor Underlayment

PHYSICAL PROPERTIES		TEST METHOD	UNIT	VALUE*
Nominal Foam Density		ASTM D3575	lb/ft ³	2.0
Nominal Product Thickness		ASTM D3575	inch	1/13
Compressive Strength	@ 25% deformation	ASTM D3575	psi	2.7
	@ 50% deformation			10.4
Tensile Strength	md	ASTM D3575	psi	100
	cd			37
Elongation	md	ASTM D3575	% @ Break	78
	cd			88
Tear Resistance	md	ASTM D3575	lbs/inch	9.0
	cd			12.4

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 Photo depicts hardwood flooring application.



OptiStep™ 1005

**Polyethylene Foam
Floor Underlayment**

PHYSICAL PROPERTIES		TEST METHOD	UNIT	VALUE*
Nominal Foam Density		ASTM D3575	lb/ft ³	5.00
Nominal Product Thickness		ASTM D3575	inch	1/8
Compressive Strength	@ 25% deformation	ASTM D3575	psi	8.3
	@ 50% deformation			20.1
Tensile Strength	md	ASTM D3575	psi	128
	cd			93
Elongation	md	ASTM D3575	% @ Break	103
	cd			79

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NOTE: Custom thickness, widths, lengths and colors are available upon special request.

Photo depicts hardwood flooring application.



OptiStep™ 1500

PE Foam Floor Underlayment
with Moisture Barrier

PHYSICAL PROPERTIES		TEST METHOD	UNIT	VALUE*
Nominal Foam Density		ASTM D3575	lb/ft ³	1.20
Nominal Product Thickness		ASTM D3575	inch	3/32
Compressive Strength	@ 25% deformation	ASTM D3575	psi	3.3
	@ 50% deformation			11.9
Tensile Strength	md	ASTM D3575	psi	135
	cd			95
Elongation	md	ASTM D3575	% @ Break	279
	cd			826
Tear Resistance	md	ASTM D3575	lbs/inch	21.9
	cd			26.8

The data presented for this product is for unfabricated Sealed Air brand products.

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NOTE: Custom thickness, widths, lengths and colors are available upon special request.

Photo depicts hardwood flooring application.



OptiStep™ 1501

PE Foam Floor Underlayment
with Moisture Barrier

PHYSICAL PROPERTIES	TEST METHOD	UNIT	VALUE*
Nominal Foam Density	ASTM D3575	lb/ft ³	1.50
Nominal Product Thickness	ASTM D3575	inch	5/32
Compressive Strength	ASTM D3575	psi	@ 25% deformation 4.3
			@ 50% deformation 13.6
Tensile Strength	ASTM D3575	psi	md 163
			cd 76
Elongation	ASTM D3575	% @ Break	md 152
			cd 97
Tear Resistance	ASTM D3575	lbs/inch	md 16.3
			cd 25.0
Moisture Vapor Transmission	ASTM F1249	perms	0.96
Thermal Conductivity (K-value)	ASTM C518	Btu-in/hr-ft ² -°F	0.26
Thermal Resistance (R-value)	ASTM C518	h-ft ² -°F/Btu (per inch)	3.8
Impact Sound			
IIC	ASTM E492	dB	61
STC	ASTM E90	dB	55

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 Photo depicts hardwood flooring application.



OptiStep™ 1504

PE Foam Floor Underlayment
with Moisture Barrier

PHYSICAL PROPERTIES		TEST METHOD	UNIT	VALUE*
Nominal Foam Density		ASTM D3575	lb/ft ³	2.00
Nominal Product Thickness		ASTM D3575	inch	3/32
Compressive Strength	@ 25% deformation	ASTM D3575	psi	2.6
	@ 50% deformation			10.2
Tensile Strength	md	ASTM D3575	psi	246
	cd			134
Elongation	md	ASTM D3575	% @ Break	480
	cd			710
Tear Resistance	md	ASTM D3575	lbs/inch	29.3
	cd			48.8

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 Photo depicts hardwood flooring application.



OptiStep™ 5000

Cross-linked Polyethylene Foam
Floor Underlayment

PHYSICAL PROPERTIES		TEST METHOD	UNIT	VALUE*
Nominal Foam Density		ASTM D3575	lb/ft ³	2.90
Nominal Product Thickness		ASTM D3575	inch	3/32
Compressive Strength	@ 25% deformation @ 50% deformation	ASTM D3575	psi	6.7 16.5
Tensile Strength	md cd	ASTM D3575	psi	78 55
Elongation	md cd	ASTM D3575	% @ Break	203 181
Tear Resistance	md cd	ASTM D3575	lbs/inch	13.9 18.8
Moisture Vapor Transmission		ASTM F1249	perms	2.67
Thermal Conductivity (K-value)		ASTM C518	Btu-in/hr-ft ² -°F	0.22
Thermal Resistance (R-value)		ASTM C518	h-ft ² -°F/Btu (per inch)	4.5
Impact Sound				
	IIC	ASTM E492	dB	61
	STC	ASTM E90	dB	55

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Photo depicts hardwood flooring application.



OptiStep™ 5500

**XLPE Foam Floor Underlayment
with Moisture Barrier**

PHYSICAL PROPERTIES		TEST METHOD	UNIT	VALUE*
Nominal Foam Density		ASTM D3575	lb/ft ³	2.90
Nominal Product Thickness		ASTM D3575	inch	3/32
Compressive Strength	@ 25% deformation @ 50% deformation	ASTM D3575	psi	7.0 18.6
Tensile Strength	md cd	ASTM D3575	psi	198 118
Elongation	md cd	ASTM D3575	% @ Break	667 571
Tear Resistance	md cd	ASTM D3575	lbs/inch	34.0 46.0
Moisture Vapor Transmission		ASTM F1249	perms	0.80
Thermal Conductivity (K-value)		ASTM C518	Btu-in/hr-ft ² -°F	0.24
Thermal Resistance (R-value)		ASTM C518	h-ft ² -°F/Btu (per inch)	4.24
Impact Sound				
	IIC	ASTM E492	dB	61
	STC	ASTM E90	dB	54

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Photo depicts hardwood flooring application.



OptiStep™ 6000

Cross-linked Polypropylene
Foam Floor Underlayment

PHYSICAL PROPERTIES	TEST METHOD	UNIT	VALUE*
Nominal Foam Density	ASTM D3575	lb/ft ³	2.70
Nominal Product Thickness	ASTM D3575	inch	3/32
Compressive Strength	ASTM D3575	psi	@ 25% deformation 11.2
			@ 50% deformation 21.6
Tensile Strength	ASTM D3575	psi	md 124
			cd 70
Elongation	ASTM D3575	% @ Break	md 272
			cd 131
Tear Resistance	ASTM D3575	lbs/inch	md 21.4
			cd 35.0
Moisture Vapor Transmission	ASTM F1249	perms	2.75
Thermal Conductivity (K-value)	ASTM C518	Btu-in/hr-ft ² -°F	0.21
Thermal Resistance (R-value)	ASTM C518	h-ft ² -°F/Btu (per inch)	4.65
Impact Sound			
IIC	ASTM E492	dB	60
STC	ASTM E90	dB	55

The data presented for this product is for unfabricated Sealed Air brand products.

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OptiStep™ 6500

**XLPP Foam Floor Underlayment
with Moisture Barrier**

PHYSICAL PROPERTIES	TEST METHOD	UNIT	VALUE*
Nominal Foam Density	ASTM D3575	lb/ft ³	2.70
Nominal Product Thickness	ASTM D3575	inch	3/32
Compressive Strength	ASTM D3575	psi	@ 25% deformation 13.6
			@ 50% deformation 26.1
Tensile Strength	ASTM D3575	psi	md 212
			cd 137
Elongation	ASTM D3575	% @ Break	md 396
			cd 278
Tear Resistance	ASTM D3575	lbs/inch	md 34.4
			cd 45.6
Moisture Vapor Transmission	ASTM F1249	perms	0.90
Thermal Conductivity (K-value)	ASTM C518	Btu-in/hr-ft ² -°F	0.22
Thermal Resistance (R-value)	ASTM C518	h-ft ² -°F/Btu (per inch)	4.5
Impact Sound			
IIC	ASTM E492	dB	61
STC	ASTM E90	dB	54

The data presented for this product is for unfabricated Sealed Air brand products.

*While values shown are typical of this product they should not be construed as specification limits.

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Photo depicts hardwood flooring application.



Specialty Materials

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