

Product Information Bulletin

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PlastiSpan® EFS Insulation - USA Applications

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The bulletin provides material properties and manufacturing requirements for *PlastiSpan*[®] EFS insulation manufactured to ASTM E2430¹ for use in exterior insulation and finish systems (EIFS) for use in exterior insulation and finish systems (EIFS).

Table 1 – PlastiSpan EFS Insulation Properties

Material Properties	ASTM Test Method	Units	Va	alues ²
Density <i>Minimum</i>	C303 or D1622	pcf 0.90		0.90
Thermal Resistance ³	C177 or C518	ft²•hr•°F/BTU	75 °F	3.60
Minimum	C177 01 C518	ft ² •hr•°F/BTU	40 °F	4.00
Water Vapour Permeance ⁴ Maximum	E96	perms	5.0	
Dimensional Stability Maximum	D2126	% linear change	2.0	
Water Absorption Maximum	C272	% by volume	4.0	
Flexural Strength Minimum	C203	psi	25	
Compressive Resistance Minimum @ 10% Deformation	C165 or D1621	psi	10	
Limiting Oxygen Index Minimum	D2863	% volume	24	
Additional	Additional Material Properties for PlastiSpan EFS Insulation			
Water Absorption Maximum	C272	% by volume		2.0
Dimensional Stability Maximum	D2126	% linear change		0.5
Tensile Strength Minimum	D1623	psi		15

¹ PlastiSpan EFS insulation material properties are third party certified to requirements of ASTM E2430, Standard Specification for Expanded Polystyrene ("EPS") Thermal Insulation Boards for Use in Exterior Insulation and Finish Systems ("EIFS"), under a quality listing program administered by Intertek. Intertek Code Compliance Research Report CCRR-1072 confirms compliance with the 2009, 2012 and 2015 International Codes.

² Material properties meet or exceed requirements for ASTM C578, Type I and are third party certified under a quality listing program administered by Intertek Testing Services.

³ Values are minimum per 1-inch of thickness at mean temperatures of 75 °F and 40 °F.

⁴ Values are maximum for 1-inch thick samples with natural skins intact. Lower values will result for thicker materials.



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The dimensions, dimensional tolerances and block aging for *PlastiSpan*[®] *EFS* insulation meet requirements specified in ASTM E2430, *Standard Specification For Expanded Polystyrene ("EPS") Thermal Insulation Boards For Use In Exterior Insulation and Finish Systems ("EIFS")* as detailed in Tables 2 and 3 below.

Table 2 - Dimensions and Dimensional Tolerances

Standard Dimension per ASTM E2430					
Length	48 inches				
Width	24 inches				
Thickness	3/4 inch to as specified				
Dimensional Tolerances ASTM E2430					
Length	±1/16 inch				
Width	±1/16 inch				
Thickness	Minimum: 3/4 inch	+1/16 inch			
THICKHESS	Maximum: As specified	±1/16 inch			
Squareness	When measured on the large flat face from one corner to the opposing corner, dimensional variations shall not exceed 1/32 inch in 12 inch				
Edge Trueness	When measured with a straight edge, edges shall not deviate more than 1/32 inch in 12 inch				
Face Flatness	When measured across the face with a straight edge, maximum deviation from the straight edge shall not exceed more than 1/32 inch				

Table 3 - Block Aging Requirements Prior to Cutting

Table 6 Block / tging requirements i nor to catting						
Storage Condition	Average Temperature	Minimum Storage Period				
Low Penta	Pentane (<4.5% pentane) Raw Materials and Vacuum Mould Technology					
Plant Aging	Ambient Temperature 68 °F and RH	12 Days				
Full Pentane	(nominal 6% pentane) Raw Materials and Vacuum Mould Technology					
Plant Aging	Ambient Temperature 68 °F and RH	18 Days				
Full Pentane (nominal 6% pentane) Raw Materials and Non-Vacuum		uum Mould Technology				
Plant Aging	Ambient Temperature 68 °F and RH	42 Days				
Heat Aging	Elevated Temperature 140 °F	5 Days				

The flame spread index and smoke developed index for *PlastiSpan® EFS* insulation are determined in *accordance* with ASTM E84 (UL723). Flame spread and smoke developed classifications are third party certified under a quality listing program administered by Intertek Testing Services are provided in Table 4 below.

Table 4 - Flame-Spread Rating and Smoke Developed Classification

Material Properties	ASTM E84
Flame Spread Index	20
Smoke Developed Index	300