

Better building ideas from PFB BULLETIN NO. 321 ISSUED: December 22, 2015 REPLACES: NEW

Product Information Bulletin

PlastiSpan[®] Insulation - ASTM C578, Type I Material Properties

PlastiSpan[®] insulation is a rigid, closed-cell foam plastic insulation that meets the requirements for expanded polystyrene (EPS) insulation manufactured to ASTM C578¹. Table 1 provides material properties for **PlastiSpan** insulation meeting ASTM C578, Type I as noted.

PlastiSpan Insulation Properties		Units	ASTM Test	Type I
Nominal Density		pcf	C303	1.00
Compressive Resistance ² Minimum @10% deformation		psi	D1621	10.0
R-value ³ per inch thickness at mean temperature	40 °F	ft ² •hr•°F	C518	4.2
	75 ⁰F	Btu		3.9
Water Vapor Permeance Maximum		Perm	E96	5.0
Flexural Strength Minimum		psi	C203	25
Dimensional Stability Maximum		% linear change	D2126	2.0
Water Absorption ⁴ Maximum		% by volume	C272	4.0
Oxygen Index Minimum		volume %	D2863	24
Density Minimum		pcf	C303	0.90
Flame Spread Index Maximum			E84	<25
Smoke-Developed Index Maximum		<450		

Sustainability

As part of its commitment to quality and ongoing sustainability initiatives, Plasti-Fab maintains **GREENGUARD Gold Certification** for **PlastiSpan** insulation with UL Environment, an independent global safety science organization. The **GREENGUARD Gold Certification** mark on **PlastiSpan** insulation gives assurance that insulation designed for use in indoor spaces meets strict chemical emissions limits, which contribute to the creation of healthier interiors.

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¹ *PlastiSpan* insulation properties are third party certified under a quality listing program administered by Intertek to ASTM C578, *Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation*.

² Compressive resistance measured at 10 percent strain is not intended for use when *PlastiSpan* insulation will be used to support long-term compressive loads. Contact Plasti-Fab for additional information.

³ For additional information on thermal resistance requirements refer to ASTM C578.

⁴ ASTM Test Method C272 water absorption requires 24 hours submersion of specimen under water. The water absorption values above are applicable to specific end-use design requirements only to the extent that the end-use conditions are similar to requirements stated in the test method.

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