

Product Information Bulletin

Better building ideas from PFB 🗬			
BULLETIN NO.	322		
ISSUED:	January 10, 2020		
REPLACES:	December 22, 2015		

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

PlastiSpan[®] HD 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 HD* insulation meeting ASTM C578, Type II as noted.

PlastiSpan HD Insulation Properties		Units	ASTM Test	Type II
Nominal Density		pcf	C303	1.50
Compressive Resistance ² Minimum @10% deformation		psi	D1621	15.0
R-value³ per inch thickness at mean temperature	40 °F	ft ² •hr•°F	C518	4.6
	75 ⁰F	Btu		4.2
Water Vapor Permeance		Perm	E96	3.5
Flexural Strength Minimum		psi	C203	35
Dimensional Stability Maximum		% linear change	D2126	2.0
Water Absorption ⁴ Maximum		% by volume	C272	3.0
Oxygen Index Minimum		volume %	D2863	24
Density Minimum		pcf	C303	1.35
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 HD insulation with UL Environment, an independent global safety science organization. The GREENGUARD Gold Certification mark on PlastiSpan HD insulation gives assurance that insulation designed for use in indoor spaces meets strict chemical emissions limits, which contribute to the creation of healthier interiors.

¹ *PlastiSpan HD* 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.

Compressive resistance at 10 percent strain is not intended for design use when PlastiSpan HD insulation will be used to support structural compressive loads. See Plasti-Fab Product Information Bulletin No. 305 for additional information.

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.