

 Better building ideas from PFB

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Product Information Bulletin

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

DuroSpan[®] insulation is a rigid, closed-cell foam plastic insulation that meets the requirements for expanded polystyrene (EPS) insulation manufactured to ASTM C578, Type I. The addition of a laminated film to the top and bottom surfaces of **DuroSpan** insulation provides a more durable product that is less susceptible to handling damage.

The reflective facer on **DuroSpan** insulation contains a thin layer of foil embedded within the film. The reflective facer does not increase the nominal R-value of **DuroSpan** insulation (for additional information see Plasti-Fab PIB 253 - Facts About Thermal Resistance of Reflective Insulation). The green face of **DuroSpan** insulation should be left exposed to make use of the markings on this face provided for easy cutting of insulation and/or spacing of interior framing as required.

DuroSpan Insulation Properties ¹		Units	ASTM Test	Туре І
Nominal Density		pcf	C303	1.00
Compressive Resistance Minimum @10% deformation		psi	D1621	10.0
R-value per inch thickness at mean temperature	40 °F	<u>ft</u> ² •hr•°F	C518	4.2
	75 °F	Btu		3.9
Water Vapor Permeance ² Maximum		Perm	E96	0.5
Flexural Strength Minimum		psi	C203	25
Dimensional Stability Maximum		% linear change	D2126	2.0
Water Absorption ³ 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 *DuroSpan* insulation with UL Environment, an independent global safety science organization. The *GREENGUARD Gold Certification* mark on *DuroSpan* insulation gives assurance that insulation designed for use in indoor spaces meets strict chemical emissions limits, which contribute to the creation of healthier interiors.

² The vapor permeance value provided above is a composite value for *DuroSpan* insulation with laminated films. Where water vapour permeance is a design issue, contact Plasti-Fab technical services for additional information.

³ 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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¹ **DuroSpan** 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**.

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