

Physical Properties <sup>1</sup>	ASTM Method	English Units <sup>2</sup>	Metric Units <sup>2</sup>
Density <sup>3</sup>	D 1622	2.5 lb/ft <sup>3</sup>	40.1 kg/m <sup>3</sup>
Compressive Strength <sup>3</sup> (10% deflection)	D 1621		
Parallel to Rise		37 lb/in <sup>2</sup>	255 kPa
Perpendicular to Rise		31 lb/in <sup>2</sup>	214 kPa
Compressive Strength (28 day exposure to 400F)	C 273		
Parallel to Rise		18.26 lb/in <sup>2</sup>	126 kPa
Thermal Conductivity: K-Factor (@ 1" 10-day initial)	C 518	0.15 BTU-in/hr-ft <sup>2</sup> -F	0.022 W/m-C
Thermal Conductivity: K-Factor (@ 1" aged 6 months @ 75F)	C 518	0.18 BTU-in/hr-ft <sup>2</sup> -F	0.026 W/m-C
Closed Cell Content	D 2856	>95 %	>95 %
Water Absorption (24-hour immersion)	C 272	0.1 % by volume	0.1 % by volume
Water Vapor Transmission	E 96	2.23 perm-inch	3.25 ng/Pa-s-m
Service Temperature		-297 to +400F	-183 to +204C
Dimensional Stability <sup>4</sup>	D 2126		
@ -30F (-34C), 7 days:		<+0.1 % Change	<+0.1 % Change
Length		<+0.1 % Change	<+0.1 % Change
Volume		<+1.0 % Change	<+1.0 % Change
@ 158F (70C)/95% RH, 7 days:		<+0.2 % Change	<+0.2 % Change
Length		<+1.2 % Change	<+1.2 % Change
Volume		No Change	No Change
@ 400F (204C), 28 days, dry heat			
Surface Burning Characteristics <sup>5</sup>			
Flame Spread @ 4" (10 cm)	E 84	25	25
Smoke Density @ 4" (10 cm)	E 84	160	160

- Physical properties are measured at 70-75F, unless otherwise indicated, and all test values are from independent certified testing laboratories.
- These are nominal values obtained from representative product samples, and are subject to normal manufacturing variances.
- Average value through the foam cross section.
- Frequent and severe thermal cycling can produce dimensional changes significantly greater than those listed here. Special design considerations must be made in systems subject to severe cycling.
- This numerical flame spread data is not intended to reflect hazards presented by this or any other material under actual fire conditions.
- FITNESS FOR USE MUST BE DETERMINED BY BUYER AND ENGINEER; DYPLAST PRODUCTS DOES NOT WARRANT FITNESS FOR USE.
- CAUTION: Severe degradation of the foam can result if water gets into the insulation system on a high temperature pipe. These include accelerated degradation and extensive charring, and loss of insulation performance. Thus it is critical that the jacketing and joint sealers are designed and installed correctly to prevent water ingress.

**FOR TECHNICAL INFORMATION:**

**Contact: Michael Cartmell**  
**Vice President, Technology**

[www.dyplastproducts.com](http://www.dyplastproducts.com)  
 12501 N.W. 38<sup>th</sup> Ave.  
 Miami, FL 33054

**Phone: (305) 921-0123 Fax: (305) 687-6353**  
**Email: [mcartmell@dyplastproducts.com](mailto:mcartmell@dyplastproducts.com)**  
**MSDS sheets available on website**

NOTICE: No freedom from any patent owned by Dyplast Products or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. Dyplast Products assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

**LIMITATIONS AND DISCLAIMER OF WARRANTIES AND LIABILITIES**

Characteristics, properties, performance of materials, and application specifications herein described are based on data obtained under controlled conditions. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. Dyplast Products makes no implied warranties of any type, including without limitation, any warrant of merchantability or fitness of purpose. In no event will Dyplast Products be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information or the product to which information refers. No agent, sales representative, or employee is empowered to change, alter, or amend this provision, unless approved in writing by a duly authorized officer of Dyplast Products.