

PHYSICAL PROPERTIES OF DYTHERM PHENOLIC RIGID FOAM INSULATION

Property	Test Method	Unit	Typical Values			
Nominal Density	ASTM D1622	lb/ft ³	2.5	3.75	5.0	7.5
Thermal Conductivity at +50°F	ASTM C518 (initial)	Btu-in/hr·ft ² ·°F	0.145	0.17	0.21	0.22
Closed Cell Content	ASTM D2856 Method B	%	95	95	95	95
Operating Temperature Upper Limit		°F	+248	+248	+248	+248
Operating Temperature Lower Limit		°F	-292	-292	-292	-292
Minimum Compressive Strength at +73°F	ASTM D1621					
	Parallel	Psi	29	58	90	150
	Perpendicular	Psi	17.5	43	70	110
Minimum Tensile Strength at +73°F	ASTM D1623					
	Parallel	Psi	29	54	85	130
	Perpendicular	Psi	26	41	65	100
Linear Dimensional Stability	ASTM D2126					
	+199.4°F for 24 hour	%	TBD	TBD	TBD	TBD
	-22°F for 24 hours	%	TBD	TBD	TBD	TBD
Linear Expansion Coefficient	ASTM D696	ft/ft·K	TBD	TBD	TBD	TBD
Color			Gray	Gray	Gray	Gray
Surface Burning Characteristics	ASTM E84					
	Flame Spread @ 4 in thick	0				
	Smoke Density @ 4 in thick	5				

(1) All properties are measured at 70°F – 75°+ unless otherwise indicated.

(2) These are nominal values obtained from representative product samples, and are subject to normal manufacturing variances.

(3) Average value through the foam cross section.

(4) 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.

(5) This numerical flame spread data is not intended to reflect hazards presented by this or any other material under actual fire conditions.

FOR TECHNICAL INFORMATION:



(800) 433-5551
info@dyplastproducts.com
www.dyplastproducts.com
 12501 N.W. 38th Ave.
 Miami, FL 33054

- **Contact: Mike Cartmell**
Vice President, Technology
- **Phone: (305) 921-0123 Fax: (305) 687-6353**
- **Email: mcartmell@dyplastproducts.com**
- **MSDS sheets available upon request**

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