



HiTHERM N.A.
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PIR400

Technical Data Sheet

PIR400 is a rigid, closed cell polyisocyanurate insulation designed to operate at a continuous temperature of 400°F, with intermittent service up to 450°F. With industry leading thermal conductivity, PIR400 is an ideal product for use on 150 lbs. steam lines (366°F). Mechanical systems looking for excellent thermal performance as well as low water absorption and vapor permeability would benefit greatly from PIR400.

Physical Properties	Test Method	Value
Nominal Density	ASTM D1622	2.5
Color		Red
Thermal Conductivity	ASTM C518	
Initial		0.145
Aged 180 Days		0.175
R-Value 180 Days	ASTM C518	5.7
Compressive Strength	ASTM D1621	
Parallel to Rise		30 psi
Perpendicular to Rise		27 psi
Service Temperature		
Continuous		-100°F to 400°F
Intermittent		450°F
Dimensional Stability % Change In Length	ASTM D2126	
7 Days at 300° F		2%
28 Days at 300° F		4%
Water Absorption % Change By Weight	ASTM D2842	1.21%
Moisture Vapor Transmission	ASTM E96	0.54
Closed Cell Content	ASTM D2856	87%
Surface Burning Characteristics	ASTM E84	
Sample Thickness		1"
Flame Spread		40
Smoke Development		80