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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, lb/cu.ft.	ASTM D1622	2.5
Color		Red
Thermal Conductivity, BTU-in/hr.ft ² . °F	ASTM C518	
Initial @ 75°F		0.145
Aged 180 Days @ 75°F		0.175
R-Value 180 Days, (ft ² .°F-hr)/BTU	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, g/100 in ² /24 hr.	ASTM E96	0.54
Closed Cell Content	ASTM D2856	87%
Surface Burning Characteristics	ASTM E84	
Sample Thickness		1"
Flame Spread		40
Smoke Development		80