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PIR300 25/50

Technical Data Sheet

PIR300 25/50 is a rigid closed cell polyisocyanurate insulation with the industry leading thermal conductivity and E84 25/50 passive fire resistance rating for PIR materials. Those factors combined with extremely low ODP (Ozone Depletion Potential) and GWP (Global Warming Potential), make PIR300 25/50 an exceptional “Green” insulation to use for Pharmaceutical Processing, Military Bases, Food Beverage & Brewery, Schools, Hospitals, Low Pressure Steam, and Industrial Chilled & Hot Water Applications.

PIR300 25/50 is made in the USA and has a continuous service temperature between -297°F and 300°F with intermittent fluctuations up to 350°F. This PIR complies with ASTM C591, Grade 2, Type IV.

Physical Properties	Test Method	Value
Nominal Density, lb/cu.ft.	ASTM D1622	2.0
Color		Green
Thermal Conductivity, BTU-in/hr.ft ² . °F	ASTM C518	
Initial @ 75°F		0.14
Aged 180 Days @ 75°F		0.168
R-Value 180 Days, (ft ² .°F·hr)/BTU	ASTM C518	6.0
Compressive Strength	ASTM D1621	
Parallel to Rise		30 psi
Perpendicular to Rise		20 psi
Service Temperature		
Continuous		-297°F to 300°F
Intermittent		350°F
Dimensional Stability % Change In Length	ASTM D2126	
7 Days at 300° F		4%
28 Days at 300° F		4%
Water Absorption % Change By Weight	ASTM D2842	1.08%
Moisture Vapor Transmission, g/100 in ² /24 hr.	ASTM E96	0.64
Closed Cell Content	ASTM D2856	>90%
Surface Burning Characteristics	ASTM E84	
Sample Thickness		≤2.5"
Flame Spread		25
Smoke Development		50