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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 365°F. This PIR complies with ASTM C591, Grade 2, Type IV.

Physical Properties	Test Method	Value
Nominal Density	ASTM D1622	2.0
Color		Green
Thermal Conductivity	ASTM C518	
Initial		0.14
Aged 180 Days		0.168
R-Value 180 Days	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	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