

PHYSICAL PROPERTIES OF ISO-C1/4.0 POLYISOCYANURATE RIGID FOAM INSULATION

PHYSICAL PROPERTY MEASURED ⁽¹⁾	ASTM METHOD ⁽²⁾	VALUE	PHYSICAL PROPERTY MEASURED	ASTM METHOD ⁽²⁾	VALUE
Density ⁽³⁾	D-1622	4.0 lb/cu ft	Dimensional Stability ^{(3) (5)}	D-2126	
Compressive Strength ⁽³⁾	D-1621		@ 158°F/97%RH, 7 Days	Length	Less Than +1.5%
Parallel to rise		82 lbs/ sq in			
Perpendicular to rise	T	73 lbs/ sq in	@ 300°F, 7 Days	Volume	Less Than +1.0%
Tensile Strength	D-1623	61 lbs/sq in		Length	Less Than +1.0%
Flexural Strength	C-203	123 lbs/sq in	@ -10°F, 7 Days	Volume	Less Than +0.1%
Flexural Modulus	C-203	2331 lbs/sq in		Length	Less Than +0.2%
Shear Strength	C-273	34.4 lbs/sq in	Water Absorption	C-272	Less Than +0.1%
Shear Modulus	C-273	315 lbs/sq in	Water Vapor Permeance	E-96	0.7 perm-inch
			Service Temperature ⁽⁴⁾ °F(°C)		-297 to +300 (-183 to +149)
Thermal Resistance	C-518		Surface Burning Characteristics ⁽⁶⁾		CLASS I
10 days K-Factor (initial)	@1"	0.15	Flame spread @ 4"	E-84	25
K-factor (aged 6 months)	@1"	0.175	Smoke density @ 4"	E-84	300
R-factor (aged 6 months)	@1"	5.7			
Closed Cell Content	D-2856	Greater than 98%	Hot Surface	C-411	TBD

⁽¹⁾ All properties are measured at 70°F – 75°+ unless otherwise indicated and all test values from independent certified testing laboratories.

⁽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⁾ Above 300°F, discoloration and charring will occur, resulting in an increased K-Factor in the discolored area.

⁽⁵⁾ 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.

⁽⁶⁾ This numerical flame spread data is not intended to reflect hazards presented by this or any other material under actual fire conditions.

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