ISO-C1/2.0

PHYSICAL PROPERTIES OF ISO-C1/2.0 POLYISOCYANURATE RIGID FOAM INSULATION

PHYSICAL PROPERTY MEASURED[1]	ASTM METHOD[2]	VALUE	PHYSICAL PROPERTY MEASURED	ASTM METHOD[2]	VALUE
Density[3]	D-1622	**2.1 lb/cu ft**	Dimensional Stability[3] [5]	D-2126	
Compressive Strength[3]	D-1621		@ 158°F/97%RH,7 Days	Volume	**Less Than +2.0%**
Parallel to rise	‖	**26 lbs/sq in**		Length	**Less Than +1.0%**
Perpendicular to rise	T	**29 lbs/sq in**	@ 212°F, 7 Days	Volume	**Less Than +1.0%**
Tensile Strength	D-1623	**33 lbs/sq in**		Length	**Less Than +0.6%**
Flexural Strength	C-203	**54 lbs/sq in**	@ -40°F, 7 Days	Volume	**Less Than +0.1%**
Flexural Modulus	C-203	**864 lbs/sq in**		Length	**Less Than +0.1%**
Shear Strength	C-273	**27 lbs/sq in**	Water Absorption	C-272	**0.24%**
Shear Modulus	C-273	**346 lbs/sq in**	Water Vapor Permeance	E-96	**2.33 perm-inch**
			Service Temperature[4] °F(°C)		**-297 to +300 (-183 to +149)**
Thermal Conductivity	C-518		Surface Burning Characteristics[6]		**UL** / **FM**
10 days K-Factor	@1"	**0.15 initial**			
75°F Mean Temp K-Factor	@1"	**0.18 aged**	Flame spread @ 4"	E-84	**25** / **25**
Thermal Resistance R-Factor	@1"	**5.6 aged**	Smoke density @ 4"	E-84	**195** / **130**
Closed Cell Content	D-2856	**Greater than 95%**	Hot Surface	C-411	Pass

(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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