

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

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

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

<sup>(2)</sup> These are nominal values obtained from representative product samples, and are subject to normal manufacturing variances.

<sup>(3)</sup> Average value through the foam cross section.

<sup>(4)</sup> Above 300°F, discoloration and charring will occur, resulting in an increased K-Factor in the discolored area.

<sup>(5)</sup> 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.

<sup>(6)</sup> 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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