

PHYSICAL PROPERTIES OF ISO-C1[®]/6.0 POLYISOCYANURATE RIGID FOAM INSULATION

PHYSICAL PROPERTY MEASURED ⁽¹⁾	ASTM METHOD ⁽²⁾	VALUE	PHYSICAL PROPERTY MEASURED	ASTM METHOD ⁽²⁾	VALUE
Density ⁽³⁾	D-1622	6.0 lb/cu ft	Dimensional Stability ^{(3) (5)}	D-2126	
Compressive Strength ⁽³⁾	D-1621		@ 158°F/95%RH, 7 Days	Length	Less Than +1.0%
Parallel to rise		139 lbs/ sq in		Volume	Less Than +1.5%
Compressive Modulus	D- 1621	4,527 lbs/sq in	@ 212°F, 7 Days	Volume	Less Than +0.1%
Tensile Strength	D-1623	136 lbs/sq in		Length	Less Than +0.1%
Flexural Strength	C-203	204 lbs/sq in	@ -40°F, 7 Days	Volume	Less Than +0.3%
Flexural Modulus	C-203	4,764 lbs/sq in		Length	Less Than +0.1%
Shear Strength	C-273	84 lbs/sq in	Water Absorption	C-272	Less Than +0.7%
Shear Modulus	C-273	788 lbs/sq in	Water Vapor Permeance	E-96	1.25 perm-inch
			Service Temperature ⁽⁴⁾ °F(°C)		-297 to +300 (-183 to +149)
Thermal Resistance	C-518		Surface Burning Characteristics ⁽⁶⁾		
10 days K-Factor	@1"	0.16 initial	Flame spread @ 4"	E-84	35
			Smoke density @ 4"	E-84	Over 500
Closed Cell Content	D-2856	Greater than 95%			

(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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