INSULAPACK™
TECHNICAL DATA SHEET

Insulapack™ is a multi-layered, laminated plastic cellular material filled with insulating gas complete with a metallic reflective outer layer which provides a very high thermal resistance (R value) to insulate walls, ceilings, mechanical duct work and piping. The outer metallic foil layer of Insulapack™ ensures that the product will not provide radiant heat transfer and its plastic cellular construction makes the product impervious to humidity. The insulated gas within the green coloured plastic cells is inert, non-reactive and not flammable. The multi-laminated plastic cells will not leak and the material has been aged tested to perform effectively for a minimum of 50 years. This material ensures extremely low water vapour perrmeance acting as a vapour barrier, will not corrode, resists mould, and will not provide a nesting for animals and insects.

PHYSICAL PROPERTIES

Test Method	Description	Results
CAN/ULC- S102.2	Standard Method of Test for Surface Burning Characteristics of Miscellaneous Materials and Assemblies	Pass
	Flame Spread Rating	10
	Smoke Developed Classification	10
ASTM E84-13a (UL 723, UBC 8-1, NFPA 255)	Test for Surface Burning Characteristics of Building Materials	Pass
	Flame Spread Index	0
	Smoke Developed Index	5
ASTM C335	Standard test Method for Steady-State Heat Transfer Properties of Horizontal Pipe Insulation	
	Thermal Resistance Between Duct Surface and Surrounding Air	8.8ft²•h•°F/Btu (RSI=1.55m²•k/w)
	Thermal Resistance Between Duct Surface and Exterior Insulation Surface	7.5ft²•h•°F/Btu (RSI=1.32m²•k/w)
ASTM C1371	Test Method for Determination of Emittance of Materials near Room Temperature Using Portable Emissiometers	IR Emittance:0.062 Standard Deviation 0.002

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PHYSICAL PROPERTIES (continued)

Test Method	Description	Results
ASTM E96	Standard test Methods for Water Vapour Transmission of Materials	31 (ng/Pa•s•m²) 0.35 Perms (metric)
ASTM C1258	Standard Test for Elevated Temperature and Humidity Resistance to Vapor Retarders for Insulation	Pass
ASTM C411	Standard Test Method for Hot Surface Performance of High Temperature Thermal Insulation Operating Temperature Range	Pass -50°F to +180°F
ASTM E903	Standard Test for Solar Absorption, Reflectance and Transmission of Materials	0.096
ASTM C1338	Standard Method for Determining Fungi Resistance of Insulating Materials and Facings	Pass Does not promote growth
Thermal Resistance	Thermal Transmission Measurement of Insulation Tested for 1 inch thickness of material @ 24ÁC	R10.8 RSI 1.9
Size of Product	Roll or Plank sheets 48” wide x 50’ or 100’ lengths	

Insulapack™ is patented in Canada, United States and Europe