

**Physical properties:****Silverzone Reflective Foil Insulation:**

Property	Units	Dir	Polynum BIG
Layer Description	High Resistance pure Aluminum Foil/Reinforced Net/multi layer PE Bubbles close cell structure/ High Resistance Aluminum pure Foil		
Nominal thickness:	mm		+/- 8.0
Emissivity (ASTM C 1371)			0.03
Reflectivity (ASTM E 408)			0.97
Heat resistance (Max-R) (ASTM C 236)	m <sup>2</sup> .°C/W		3.08
Heat resistance (Max-R) (ASTM C 236)	Btu*in/(hr*ft <sup>2</sup> *°F)		17.5
Scratch Resistance			Both Sides
Tensile strength @ peak (ASTM D-882)	g/cm-width	MD	4900
		TD	5200
Elongation @ peak (ASTM D-882)	%	MD	12.4
		TD	5.2
Tear strength (ASTM D-1938)	gf	MD	14.3
		TD	16.5
Surface Flame Spread (BS 476:Part 7)			Class 1
Fire Propagation Test (BS 476:Part 6)			Class 0 (FR Version)
Flame Spread/Smoke Development (ASTM E 84)			Class A
Fire Rating - (AS1530 Part 2)			FR 1 – Fire Retardant
Water Vapor Transmission	g / ft <sup>2</sup> · hr		0.0018 (method A)
Operating Temperature	°C		-45 to +110
Linear dimensional Changes (ASTM C 1136-92)	110°C		< 0.2
Evaluation of Fungi and Bacteria growth (ASTM C 1338-00)	Does not promote growth		
Operating Temperature	°C		-45 to +110
Anti corrosion treatment			Yes
Acoustic Performances	NRC		54%
Yield (nominal)	g/m <sup>2</sup>		255
Standard Roll Size	m X m		1.20m X 30m
Standard Roll Weight (Gross)	kg		± 9.0 kg

DISCLAIMER: The information contained in this Technical Data Sheet is the result of extensive laboratory testing performed on our products during standard production. The values given here are typical average values and are believed to be correct to the best of our knowledge, but users should not rely on them absolutely and must confirm their validity and suitability in each particular case. Polyon-Thailand Industries Ltd. makes no guarantee of results and assumes no obligation or liability in connection with this advice.