



# Polynum™ ONE

## Insulation For Roof & Wall



A thin multifoil insulation product made of one external pure aluminum foil layer covering a single core layer polyethylene bubble film.

High resistance pure aluminum Reflective layers (95% to 97% reflectivity) for maximum radiant heat reflection with a tested Emissivity.

### Optional Products:

- Fire Retardant formulated
- Reinforcing Net



Against condensation  
Resistant to moisture



Reflect 97% IR



Thermal Insulation



Saving Energy



Green Building



Durability for Years



No eye & face protection  
required



Light weight & Thin



Easy to Install



Property	Units	Dir	Value
Nominal thickness (EN 823)	mm		4.0 +/-5mm
Standard Roll Size	m X m		1.2mX50m
Standard Roll Weight (Gross)	kg		9 kg
Emissivity (ASTM C 1371)			0.05
Reflectivity (ASTM C 1371)			0.95
Heat resistance (R)* – under roof (ASTM C 1363)	m <sup>2</sup> .°C/W	Down	1.78
Heat resistance (R)*– Industrial Commercial Roof (with ceiling)	m <sup>2</sup> .°C/W		2.9
Heat resistance (R)*– Industrial Commercial Roof (Open)	m <sup>2</sup> .°C/W		1.4
Heat resistance (R) – Concrete wall/ Plaster board	m <sup>2</sup> .°C/W		1.3
Resistance to Corrosion 1 (App.1)	AS/NZS4859		Pass
Tensile properties (ASTM C 1136-92)	g/cm-width	MD	>10kg/cm2
Puncture properties	g/cm-width		72 kg/cm
Fire Safety - EN 13501-1-2000			Pass
Water Vapor Transmission (ASTM E-96 (method A))	g / ft <sup>2</sup> · hr		0.018
Fungal Resistance Test (ASTM C 1338)			No fungal growth
Dry Delamination	AS/NSZ4201		Pass (<0.5%)
Thermal Stability Test for cracks @ 110°C ASTM 1136-92 & ASTM 1204-94			Pass