



# Polynum™ Barrier

Vapor Barrier made of two external pure aluminum foil layer covering a reinforcing net coated with an Anti-corrosion treatment

Polynum Barrier may act as a vapor barrier to set on the materials damaged by moisture located in the building shell. This sheet makes the extension of the life of consumables and contributes to a feeling of comfort in the building space.

- Use as a vapor barrier sheet under flat roof waterproofing.
- Use as a reflector under the heating elements, in a heating system under the flooring.
- Use as a vapor barrier sheet on external walls.
- Use as a vapor barrier to protect perishable insulation in the building shell.

 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 Regular	Reinforced
Nominal thickness	mm		0.12	
Emissivity (ASTM C 1371)			0.05	
Reflectivity (ASTM C 1371)	1371		0.95	
Heat resistance (R) — under roof	m2.0c/vv	Down	1.44	
Tensile strength @peak (ASTM C-1336)	g/cm-width	MD	2700 I	7000
		TD	2600 I	7800
Dimensional changes at high Temp (ASTM D-1204)	0/0	MD	0.06-	0.03-
		TD	0.13-	0.05-
Puncture resistance (TAPPI T 803)	Joule		0.7	1.6
Thermal Integrity of Vapor Barrier (ASTM C-1263)	@-29°C	MD	No cracks	
	to +60°C	TD	No delamination	
Surface Burning Characteristics** (ASTM E-84 Equiv.UL723)			Class A	
			[Flame=20 /Smoke=60]	
Classification of Reaction to Fire *4*(EN 13501(2002)			Euroclass B-s2, dO	
Moisture Vapor Transmission Rate (TNO/PIRA @38°C,900/oR.H.)	g/m2 day		0.001	
Fungal Resistance Test (ASTM C 1338)			No fungal growth	
Corrosion Resistance (Internal Test)	Conc.HCl		High Resistance*	
Yield (nominal)	g/m2		140	155
Standard Roll Size	M X M			1.2x 50
Standard Roll Weight (Gross)	kg			10 kg. ±

