

# PlumbafLEX<sup>®</sup>

NITRILE RUBBER INSULATION

Flexible closed cell elastomeric foam suitable for condensation control, thermal insulation and sound absorption



COLD



HOT



MOISTURE



SOUND



## Fire Resistance

- National Construction Code Compliant, tested in accordance with AS1530.3

## Thermal Performance

- Unique closed cell structure ensures a low thermal conductivity and excellent thermal performance

## Water Vapour Diffusion Resistance

- High water vapour diffusion resistance maintains steady thermal performance and long service life

## Environmentally Friendly

- Zero Ozone Depleting Potential (ODP) and low Volatile Organic Compound (VOC)

## Ease of Installation

- Quick and easy to install due to high flexibility and dimensional stability

**BARON**  
INSULATION

## PlumbaFLEX®

Highly-flexible, closed-cell insulation material with high water vapour diffusion resistance and low thermal conductivity.

**Material:** Nitrile rubber. Density 60-70kg/m<sup>3</sup>.

**Applications:** Thermal insulation/protection for airconditioning, refrigeration and process pipes to prevent condensation and save energy.

PROPERTY	VALUE / ASSESSMENT*	TEST METHOD
Temperature range Max. service temperature Min. service temperature	105°C -50°C	DIN EN 14706 : 2005 (E)
Thermal conductivity (k value) at 23°C [W/(m.K)]	0.033	ASTM C518 : 2010
Water vapour diffusion resistance factor	> 7300µm	BS EN 12086 : 1997
Water vapour permeance	0 perms	ASTM E96
Water absorption	0.06% by volume	ASTM C209 : 1998
Reaction to fire	Class O Low flammability, self-extinguishing, does not drip, does not spread flames; Class 1	BS 476 Part 6 & 7 ASTM E84
Smoke and toxicity	Passed	IMO MSC 61(67)
Early fire hazard properties	Ignitability - 0 Spread of flame - 0 Heat evolved - 0 Smoke developed - 5	AS1530.3
Compression set	31% (for 25mm thick)	ASTM D3574
Resistance to fungi	Excellent	ASTM G21 : 2009
Resistance to bacteria	Excellent	ISO 22196 : 2007
Emission (VOC level)	< 6 µg/m <sup>2</sup> /hr	ASTM D5116
Chemical resistance	Very good	ASTM C871
Environmentally friendly Ozone resistance Ozone Depletion Potential Global Warming Potential CFC and HCFC, dust, fibres	Excellent 0 < 5 Free	Bureau Veritas – product doesn't contain materials that contribute to ODP and GWP.

Should be stored in a clean dry indoor environment away from sunlight at normal relative humidity (50%-70%) and ambient temperature (0°C – 35°C).

\*Further documents such as test certificates or approvals can be requested from Baron Insulation mail@baroninsulation.com.au.