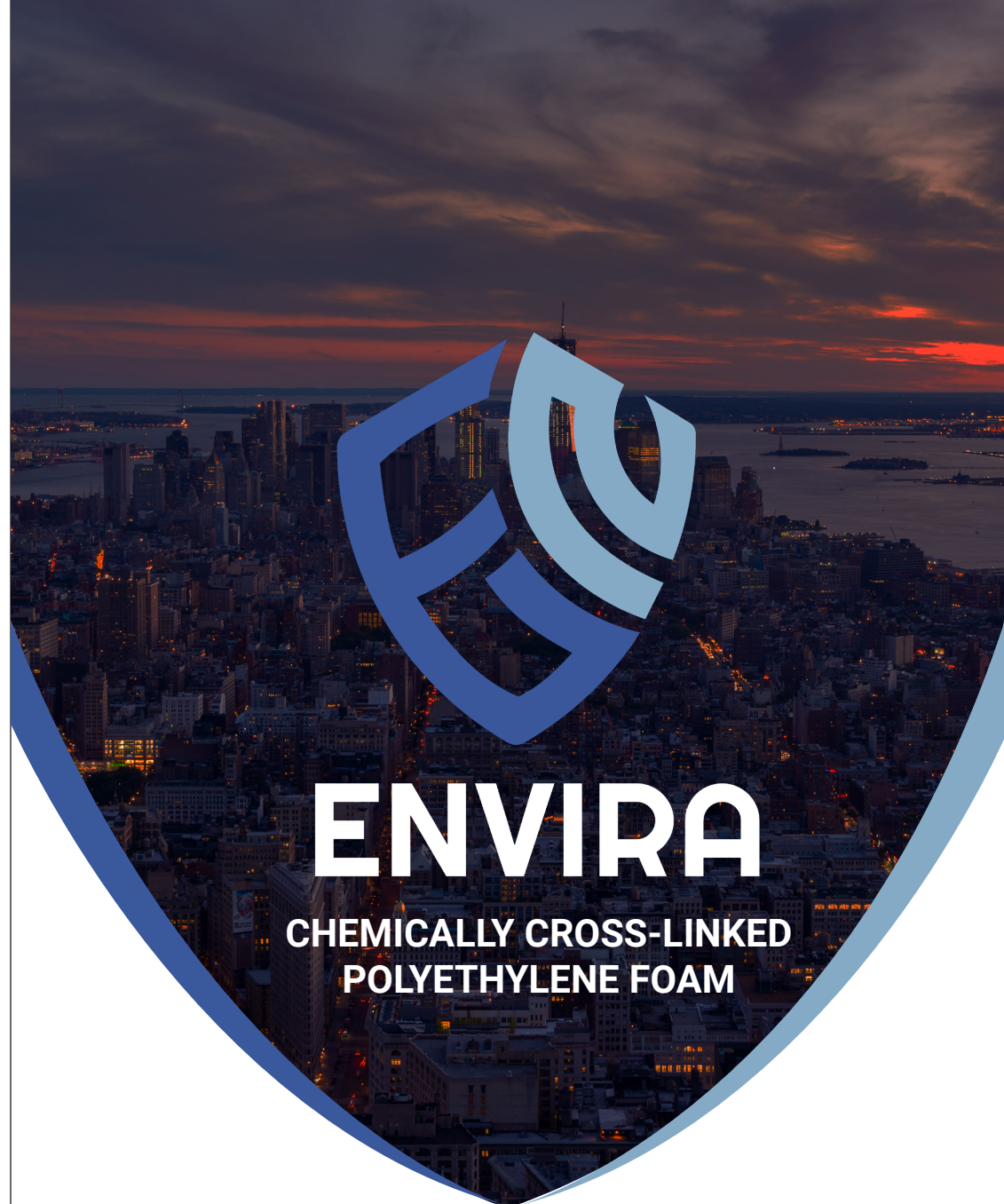




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# ENVIRA

**CHEMICALLY CROSS-LINKED  
POLYETHYLENE FOAM**

**FIRE-RETARDANT | ASTM E84 - 17 | CLASS A**





A closed-cell flexible insulation material designed to control condensation, insulate against thermal heat loss and/or heat gain, and attenuate noise.

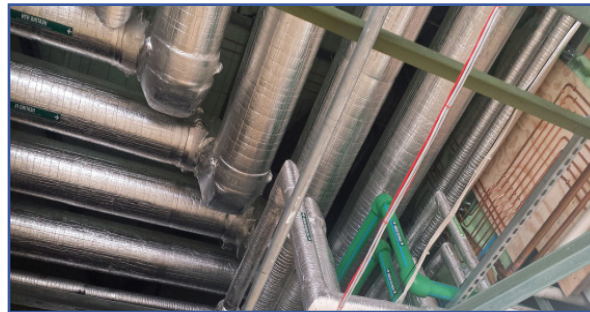
Other resultant features include water and water vapor resistance, low thermal conductivity, and low compression set. The material, being fiber-free is non-irritant and non-allergenic. For fire safety, it is infused with fire retardant component to help slow down the spread of fire.

## APPLICATIONS

Its closed-cell structure makes the material non-porous, and impenetrable to moisture, thereby forming an effective vapor barrier. It is ideal for application in ductworks and pipeworks in the Heating, Ventilation, Air-Conditioning (HVAC).

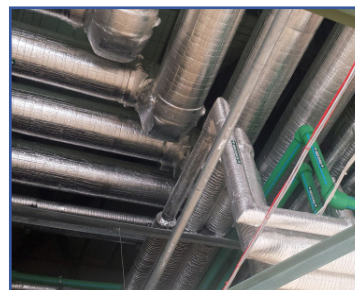
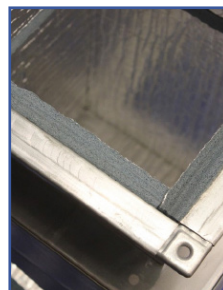
### Pipeworks

- Hot Water Lines
- Chilled Water Lines



### Ductworks

- Outer Insulation
- Internal Liner



## TECHNICAL SPECIFICATIONS

<b>Material Type</b>	Chemically Cross-linked Polyethylene Foam	
<b>Color</b>	Dark Grey	
<b>Service Temperature</b>	-40°C to 100°C	
<b>Thickness</b>	6mm, 12mm, 15mm, 20mm, 25mm	
<b>Variants</b>	Plain, One-Side Foil, One-Side Adhesive, Foil & Adhesive, Two-Side Foil	

Property	Value/Assessment	Standard/Test Method
<b>Physical Properties</b>		
Odor	None	JIS K 6767
Physical State	Solid	JIS K 6767
Density	24 to 30 kg/m <sup>3</sup>	ASTM D3574
Thermal Conductivity	0.037 W/mK	ASTM C518
Volume % of Closed Cell	>85%	JIS K 6767

<b>Mechanical Properties</b>		
Tensile Strength, machine direction (M)	2.5 kg/cm <sup>2</sup>	ASTM D412 / JIS K 6767
Tensile Strength, cross machine direction (CM)	1.8 kg/cm <sup>2</sup>	ASTM D412 / JIS K 6767
Elongation at break, M	105%	JIS K 6767
Elongation at break, CM	120%	JIS K 6767
Tear Strength, M	1.3 kg/cm	JIS K 6767
Tear Strength, CM	1.5 kg/cm	JIS K 6767
Shrinkage, 80 °C x 1 hr, M	-1.4%	JIS K 6767
Shrinkage, 80 °C x 1 hr, CM	-0.5%	JIS K 6767
Compression Strength, 25% deflection	0.3 kg/cm <sup>2</sup>	ASTM D3574 / JIS K 6767

<b>Fire Performance</b>		
Rating	Class A	ASTM E84-17
Flame-Spread Index	15	ASTM E84-17
Smoke-Developed Index	100	ASTM E84-17

<b>Other Technical Properties</b>		
Water Absorption	0.00021 g/cm <sup>2</sup>	JIS K 6767
Chemical Resistance, Hd, H <sub>2</sub> SO <sub>4</sub> - 24h	+ 1% by wt.	JIS K 6767
VOC Emissions	<10 µg/m <sup>3</sup>	JIS K 6767
Noise Reduction Coefficient, 25mm	0.28	ASTM E795

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