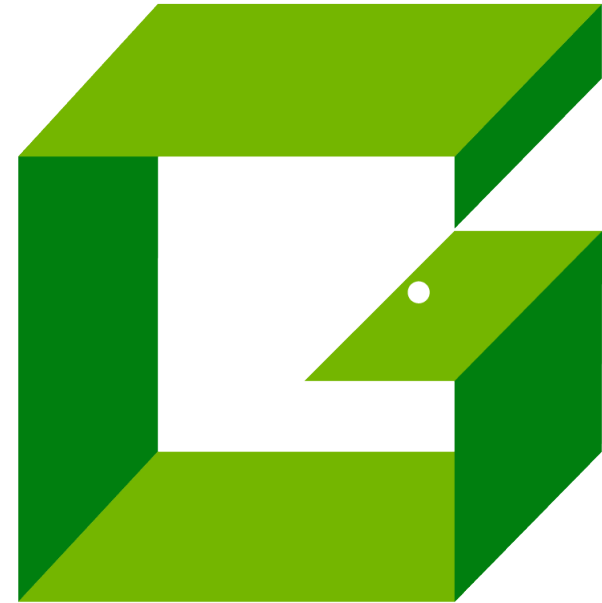




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CHEMICALLY CROSS-LINKED POLYETHYLENE FOAM

FIRE-RETARDANT | ASTM E84 - 17 | CLASS A 

GENShield®



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).

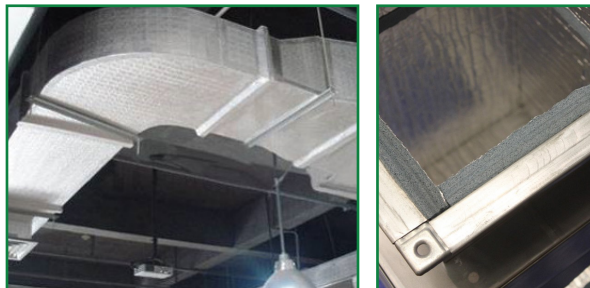
Pipeworks

- Hot Water Lines
- Chilled Water Lines



Ductworks

- Outer Insulation
- Internal Liner



TECHNICAL SPECIFICATIONS

Material Type	Chemically Cross-linked Polyethylene Foam	
Color	Dark Grey	
Service Temperature	-40°C to 100°C	
Thickness	6mm, 12mm, 15mm, 20mm, 25mm	
Variants	Plain, One-Side Foil, One-Side Adhesive, Foil & Adhesive, Two-Side Foil	
Property	Value/Assessment	Standard/Test Method
Physical Properties		
Odor	None	JIS K 6767
Physical State	Solid	JIS K 6767
Density	24 to 30 kg/m ³	ASTM D3574
Thermal Conductivity	0.038 W/mK	ASTM C518
Volume % of Closed Cell	>85%	JIS K 6767
Mechanical Properties		
Tensile Strength, machine direction (M)	2.5 kg/cm ²	ASTM D412 / JIS K 6767
Tensile Strength, cross machine direction (CM)	1.8 kg/cm ²	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 ²	ASTM D3574 / JIS K 6767
Fire Performance		
Rating	Class A	ASTM E84-17
Flame-Spread Index	20	ASTM E84-17
Smoke-Developed Index	90	ASTM E84-17
Other Technical Properties		
Water Absorption	0.00021 g/cm ²	JIS K 6767
Chemical Resistance, Hd, H ₂ SO ₄ - 24h	+ 1% by wt.	JIS K 6767
VOC Emissions	<10 µg/m ³	JIS K 6767
Noise Reduction Coefficient, 25mm	0.28	ASTM E795

This information on GENShield® is presented to the best of our knowledge. All product data is based on average values and is for guidance only. As these products are subject to constant research and development, we reserve the right to update these contents without notice.