

Insulation Specification List

	Values				Test Methods
Material	Nitrile Foamed Rubber				
Cell Structure	Closed Cell				
Density	40kg/m ³ -70kg/m ³				
Service Temperature	-50°C to 105°C (85°C for flat surfaces)				
Surface Spread of Flames	Class 1				BS 476 Part 7
Fire Performance	Class 0				BS 476 Part 6
Fire Propagation	Total Index (I) ≤ 12 Sub Index (i ₁) ≤ 6				
FM Approved	Pipes up to 2" (51mm) thickness Sheets up to 2" (51mm) thickness Multiple layers up to 4" (102mm) thickness				FM4924
Flame Spread Index/Smoke Developed Index	25/50				ASTM E84
Reaction to Fire	V-0, Self Extinguishing, Does not Drip				UL94
Oxygen Index	≥ 33%				JIS K 6911 KS M6962
Thermal Conductivity	Mean Temp	0°C	20°C	40°C	ASTM C518
	W/m·K	≤ 0.032	≤ 0.034	≤ 0.036	ASTM C177
Water Vapour Permeability	≤ 0.89 x 10 ⁻¹⁴ kg/Pa.m.s				ASTM E96
Water Absorption by Volume	μ ≥ 12,000 ≤ 0.2%				ASTM C209
Tensile Strength	≥ 200 Kpa				ASTM D412
Dimensional Stability	<7% at 93°C (200°F) and 105°C (220°F)				ASTM C534
Compression Set	6.00%				KS M6962
Acoustic Performance based on 1" (25mm) thickness	Octave Frequency	Sound Absorption Coefficient α			ASTM C423
		125 Hz	0.13		
		250 Hz	0.22		
		500 Hz	0.53		
		1000 Hz	0.66		
		2000 Hz	0.61		
		4000 Hz	0.68		
	NRC	0.50			
Ozone Resistance	Good				ASTM G155
Corrosion Resistance	No Corrosion				
Environment	Dust & Fibre Free, CFC Free, Zero ODP & GWP Certified by SGBC (Singapore) and DCL (Dubai) Green Label Compliant Formaldehyde Free Low Volatile Organic Compounds (VOCs) Low Smoke Toxicity RoHS Compliant No Fungal Growth Negligible Bacterial Growth				ASTM D5116 JIS A 1901 JIS K 7217 RoHS 2011/65/EU ASTM G21 ASTM E2180

Note:

For more information on test requirements and test results from for other standards, please contact our technical staff