

Superlon Class 0

SUPERLON®

Quality NBR Insulation

High fire performance
Low thermal conductivity
High moisture resistance



Superlon products are produced with top qualities and meet various industry standards to ensure insulation performance.

While thermal conductivity and water resisting performance have always been the key elements in determining the functionality and effectiveness of an insulation product, fire resistance have increasingly gained importance for its role in preventing fire spread.

The most common disaster in a building is often a fire emergency. The qualities of building materials play a decisive role in determining whether a fire can be contained and extinguished quickly. In the event of fire, pipes and ducts are usually the reason for fire spread as they are interconnected throughout the building. It is important for these to be fire resistant.

Should insulation material be used in buildings whether in air conditioning pipes, chiller lines, heating pipes or ducting, it will be an integral part of the building where fire performance matters.

When exposed to fire, Superlon Class 0 insulation material remains non-flammable, it does not drip, it does not contribute to fire spread, and it self-extinguishes when fire is removed.

	Values				Test Methods
Material	Nitrile Foam Rubber				
Cell Structure	Closed Cell				
Density Range	40kg/m ³ -70kg/m ³				
Service Temperature	Maximum 105°C pipes / (85°C for flat surfaces) Minimum -50°C				
FIRE RESISTANCE					
Surface Spread of Flames	Class 1				BS 476 Part 7
Fire Propagation	Total Index (I) ≤ 12 Sub Index (i ₁) ≤ 6				BS 476 Part 6
Fire Performance	Class 0				
Reaction to Fire	V-0, 5VA/ HF-1, Self Extinguishing, Does not Drip				UL94
Thermal Conductivity	Mean Temp	-10°C	0°C	20°C	ASTM C518
	W/m · K	0.033	0.034	0.036	
	Btu · in/hr · ft ² · °F	0.23	0.24	0.25	
Water Vapour Permeability	3.59 x 10 ⁻¹⁰ g/Pa.m.s μ ≥ 7000				ASTM E96
Water Absorption by Volume	0.2%				ASTM C209
Ozone Resistance Corrosion Resistance Environment	Good No Corrosion Dust and Fibre Free CFC Free, Zero ODP, Zero GWP				

Superlon insulation is certified for both Class 0 and Class 1. British Standard (BS) 476 part 6 and part 7 Class 0 is a widely accepted test standard. Part 6 (fire propagation) measures the heat that is released under fire conditions. Part 7 (spread of flame) measures the material's ability to retard flame spread under fire conditions.

Superlon insulation material is also available in Class 1. Superlon Class 1 can be used for regular household applications.