HIGH QUALITY THERMAL INSULATION MATERIALS



Description:

SUPERLON is a flexible and light weight elastomeric nitrile rubber material designed for thermal insulation. Superlon insulation is black in colour and is available either in tubing or sheet form. The extruded flexible tubing is specially designed to fit the standard diameters of steel and copper pipings. Sheets are available in standard precut sizes or in rolls.

Uses:

SUPERLON'S expanded closed cell structure provides the ideal and most efficient vapour barrier for the prevention of condensation or frost formation on cooling systems, chilled water and refrigerant lines.

SUPERLON also retards heat loss for hot water plumbing and heating, dual temperature piping and solar systems. It protects pipes by acting as a vibration damper and giving protection against corrosion by atmospheric and industrial environment.

SUPERLON'S inherent flexibility makes it ideally suited to insulation of large surface areas such as tanks, irregularly shaped vessels, air-ducts and large diameter pipes.

Characteristics and Advantages:

Superlon insulation material has been specially designed to provide the following features :

- Low thermal conductivity (K value) which makes it highly efficient and effective in the insulation of cooling or heating systems.
- The hermetic blister closed cell structure forms an impermeable layer which is in itself a good vapour barrier.
- It is suitable for application within the temperature range of - 40 deg to + 105 deg C.
- The material has been specially compounded to be self extinguishing in nature.
- Superlon has excellent ozone and ultraviolet resistance.
- It is CFC, chlorine and fibre free and does not cause skin allergy.
- It is also inert to most chemical agents and neutral to pipe metals.
- The extreme flexibility of the material makes installation fast, easy and economical.
- It is able to withstand tearing, rough handling and severe site conditions.
- Much lesser space is needed for Superlon as a thinner wall is required due to its low K value as compared to other types of insulation.
- The smooth surface of Superlon material gives the fiished insulation a neat and aesthetic appearance. No coating is necessary on most indoor installations.

TECHNICAL SPECIFICATIONS

SUPERLON CLOSE CELL TUBING AND SHEET INSULATION

AVERAGE PHYSICAL PROPERTIES		RATING
Density		0.08gm/cm^3 (5.4lb/cuft)
Thermal Conductivity	at 10°C mean temp.	0.0374W/mK (0.26BTU.in/hr.ft^2.°F)
Temperature Limits °C		-40°C to + 105°C
Water Absorption (% by weight)		3
Water Vapour Permeability Perm - In. Max		0.2
Ozone Resistance		Excellent
Thermal Stability (% shrinkage)	7 days 200°F	4.5
	7days 220°F	5.5
Spread of Flame		Self Extinguishing
Flexibility		Excellent
Weather and Ultraviolet Resistance		Good
Chemical Resistance		Good
Odour		Negligible
Mildew Resistance		No Fungal Growth

- The above average physical properties are values obtained in accordance with accepted test methods.
- At - 40°C Superlon Closed Cell Insulation becomes hard and as temperature drops below - 40°C. will be increasingly brittle; however this hardening characteristic does not affect thermal efficiency or water vapour permeability.
- The Fire Rating standard method of tests conducted under controlled laboratory conditions is a measure of a material to spread flame when compared to a known standard and is not intended to reflect hazards presented by this or any other material under actual fire conditions.



