TECHNICAL DETAILS FIRE RETARD ANT CLOSED CELL CHEMICALLY CROSS-LINKED POLYETHYLENE

for 48 Hrs at 50 °C at 50 pphm Fungus Resistance (As per

Sound Transmission Class

(9 mm SIL-XL-C Laminated

ASTM G 21)

Product Name	INSUSHIELD		
Material Description	Fire Retardant Closed Call Chemically Cross-Linked Polyethylene		
Material Form	Rolls, Sheets and Tubings		
Application	Thermal & Acoustic Insulation		
Areas of Application	A/C & Humidification ducts, Spandrel Insulation, Underdeck, Hot & Cold water pipelines & acoustic flooring		
Operating Temperature	-40°Cto + 115°C		
Colour	Gray		
Nominal Density (Kg/m3)	3012 Kg/m ³		
Thermal Conductivity (W/m°K)	Mean Temperature (°C)	W/m°k	K Cal/hr m°c
	0 23 46	0.0315 0.0325 0.0383	0.0271 0.0279 0.0329
Water Absorption, % by weight after 28 days (As per BS 4370 PART-1 Water Vapour Transmission Rata for Bare Foam in gm/m* mm of Hg.hr (As par BS 4370 PART-2) Tensile Strength (N/m2)	2.14.0527		
Tear Strength (N/m)	23		
Compression (Kg/cm²) 10%0 25%Comp 0.352 Thermal Stability at 50 °C for 48 Hrs.	Comp 0.144 No visible changes observ	1).220
U.V. Weather resistance at 60 °C for 100 Hrs. Exposure to Weatherometer	°C for 100 Hrs. Exposure to therometer gen Index, % (As per ASTM 24 63)		
Oxygen Index, % (As per ASTM D 2863)			
Fire Characteristics	Conforms to BS 476 Part 7 Class '1* for surface spread of Flame and also UL 94 HBF grade		
Ozone Resistance	No visible changes observed		

No visible growth observed. Rating • Zero

40 db

NOTES

- $1.\ Material\ available\ in\ thicknesses\ of\ 3\ mm$ to 10mm in tingle layer with 1250mm width and over 10mm in 1220mm width
- 2. Material lamination with U.V Barrier film. Met Pet and Aluminium foil is available on request.
- 3. Material with adhesive backed peel off paper is available on request.