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**Importers and suppliers of Green Energy Products for Industrial & Commercial Sectors  
Wind driven ventilators, Solar/Natural Day Lighting solutions, Roof Cool Insulations**

## Technical Specifications

| Parameter   | AEROLAM XLPE Specification   |        |              |
|---|--|--------|--------------|
| Material (ASTM C 1427)  | Chemically Cross-Linked Closed Cell Polyethylene Foam Insulation   |        |              |
| Temperature Range   | - 40° C to +115° C   |        |              |
| Nominal Density   | 30 ± 3 Kg/m <sup>3</sup>   |        |              |
| Thermal Conductivity  | Mean Temperature(°C)   | W/m °K | Kcal/hr m °C |
|   | 0  | 0.0318 | 0.0273       |
|   | 23   | 0.0329 | 0.0283       |
|   | 46   | 0.0382 | 0.0328       |
| Water Vapour Resistance Factor (μ) - mew (DIN 52615)  | Moisture Resistance Factor (μ)<br>> 9000 (for plain foam)<br>> 14000(for Al foil faced foam)   |        |              |
| Fire Characteristics  | a) Surface Spread of Flame: Class 1, As per BS 476 Part 7<br>b) Fire Propagation: Class 'O' As per BS 476 Part 6<br>c) HORIZONTAL BURNING FOAMED MATERIAL TEST UL 94 HF-1, File No. E504824<br>d) ASTM E84-18: Standard test method of surface burning characteristics of building material, Compliance 25/50. |        |              |
| Reaction to Fire  | Self-Extinguishing, Non-toxic<br>Ozone: Very Good  |        |              |
| Dimensional Stability: BS 4370 Part 1   | Change in dimensions at - 20 °C for 4 hrs.: <0.5%<br>and at 110 °C for 4 hrs.: < 0.5%  |        |              |
| Limiting Oxygen Index: ASTM D 2863  | 24%  |        |              |
| Compression Strength @ 25%: ASTM D 3575   | 0.44 Kg/cm <sup>2</sup>  |        |              |
| Resistance to Chemical: ASTM C 543  | No characteristic change observed  |        |              |
| Tensile Strength @ 50 mm / min: ASTM D 3575   | 2.51 Kg/cm <sup>2</sup>  |        |              |
| Elongation at Break: ASTM D 3575  | 133.20%  |        |              |
| Fungal Resistance: ASTM G21   | No growth observed   |        |              |
| Volume %-age of closed cells: ASTM 4370 Part 2  | > 90%  |        |              |
| Sound Transmission Class for 9 mm foam with 12 mm Gypsum board: ASTM E 413 / ISO 140  | 40 dB  |        |              |
| Water Absorption: ASTM C 209 / ASTM C 1763  | < 0.2%   |        |              |
| Water Vapour Permeance: ASTM E96  | 0.15 ng/pas.m  |        |              |
| Health & Safety Aspects   | CFC / HCFC Free; Dust and Fibre free,<br>VOC / SVOC Free   |        |              |
| Emission of Volatile Organic Compound (VOC)   | Negligible   |        |              |
| <b>Applications</b>   | HVAC, Textile & Building industry  |        |              |
| <b>Availability:</b> Please mention the sizes of rolls for different thicknesses, as well as the facings materials offered. |  |        |              |