

CX Series CXPE Foam - Rolls DATA SHEET



Product Description

CXPE Foam is Chemically Crosslinked Polyethylene Foam. CXPE foam has fine closed cell structure, skins on two sides and better physical and thermal properties compared to Non-crosslinked Polyethylene Foam.

It is lightweight, environmentally friendly, and extremely versatile. It is available in continuous rolls or sheets, in many colours, densities and thicknesses with and without adhesive backing.

Typical Physical Properties

Property	Typical value	Test Method
Density (kg/m ³)	25 +/- 10%	ISO 845
Tensile Strength (Kpa)	210 - MD 160 - CD	ISO1926
Elongation (%)	130 - MD 135 - CD	ISO1926
Compression Strength (Kpa)		ISO 844
25% deflection	25	
50% deflection	65	
Compression Set @25% deflection(%)		ISO 1856C
0.5Hr after discharge	25%	
24 Hr after discharge	17%	
Thermal Conductivity (W/mK)		ISO2581
@ 10°C	0.032	
@ 40°C	0.038	
Working Temp Range (°C)	-70/100	internal
Water Absorption (7days, % Vol)	<0.5%	JIS K6767
Moisture Permeability (g/m ² /24hr)	< 1	ISO 1633
Shore Hardness 0/00	13/30	Internal
Dimensional Change on heating (%)	-2.0 % - MD -0.6% - CD	CNS 10487
(22 hrs @70°C)		

* **NOTE:** Some parameter values are not guaranteed and will differ from lot to lot.

Typical Applications

- Building & Construction - thermal insulation, underlays, joint fillers
- Industrial - insulation water tanks, gaskets and seals, foam tapes
- Packaging - protection for appliances, glass, ceramics, electronics parts
- Sports & Leisure - surfboard, body board, PFD, safety jackets, etc

Storage

Material should be stored at 21°C at 50% relative humidity.

Disclaimer All figures shown above represent typical test results in laboratory conditions, and are given without guarantee since the conditions of use are beyond the control of our company. It is the customer's responsibility to satisfy itself that the product is fit for the purpose for which it intends to use it and that the actual conditions of use are suitable.

Grades & Sizes Available

- Density: 25kg/m³ ±10%
- Thickness: 5, 10mm
- Colour: black, white
- Backing: plain & adhesive
- Other sizes: available on request

Product Features

- ✓ fine, closed-cells with skins on both sides
- ✓ excellent thermal and acoustic insulation properties
- ✓ excellent mechanical properties
- ✓ light weight, flexible & dimensionally stable
- ✓ temperature resistance from -70°C up to 100°C.
- ✓ negligible water absorption & low water vapor transmission
- ✓ excellent chemical resistance
- ✓ good weathering resistance
- ✓ easy to convert by slitting, die cutting, laminating, vacuum forming and thermoforming.
- ✓ non-toxic, odourless and environmentally friendly.
- ✓ economical compared to IXPE foam.

Limited Warranty

We warrant the product to be free from defects in material and workmanship at the time of supply. For a period of one month from the date of delivery, if the product is proven to be defective for any reason, we will replace any portion complained of, or at our option, will refund the purchase price thereof. The user assumes all other risk if any, including the risk of injury, loss or damage, direct or consequential arising out of the use, misuse or inability to use this product. This warranty is in lieu of the warranties of merchantability, fitness for a particular purpose and all other warranties expressed or implied. No deviation is authorised.

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