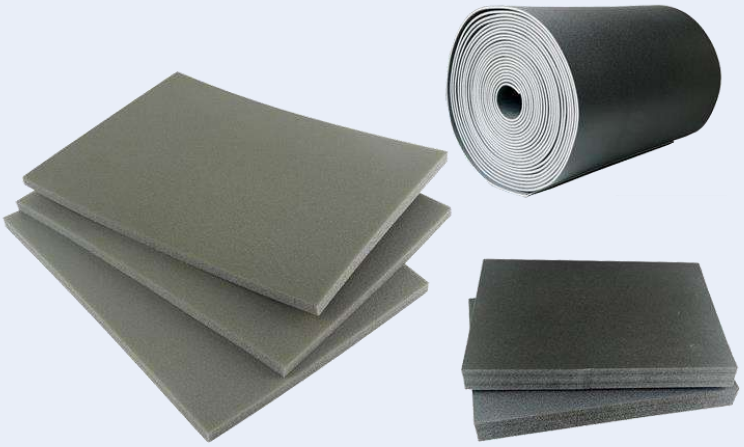
# CTF Polyethylene foam- XPE typs



## I Product Introduction

Chemical crosslinked polyethylene foam, with low density polyethylene resin and a crosslinking agent and foaming agent through continuous foaming and high temperature, XPE is chemically stable, difficult to decompose, odorless and flexible.

Polyethylene foam is closed-cell, meaning it consists of cells so tightly packed together that it gives the appearance of one uniform structure.the reality is that the individual cells within polyethylene foam do not physically connect to one another.this cellular formation is similar to fish caught in a fisherman's net.

## II Product Features

- Thermal insulation
- Sound insulation
- Waterproof
- Shock absorption
- Thermal forming

## III Product size

- Ratio: 3~40 times
- Width:100~1600MM(can be cut by customers' requirement)
- Thickness: 2~15MM (single layer), thermal compound 4~100MM (multilayer)
- Density:25~330 kg/m3
- Color:grey, black or color customized
- Foam Form Sheet, Roll, and Pad

## IV Technical Parameters

| Test Item | | 5 Times | 8 Times | 10Times | 15Times | 20Times | 25Times | 30Times | 35Times |
|---|---|---|---|---|---|---|---|---|---|
| Density kg/m3 | | 200±30 | 125±15 | 100±10 | 66.7±8 | 50±6 | 40±4 | 33.3±3 | 28.6±2 |
| Shore Hardnes /° | | 60~70 | 50~60 | 45~50 | 35~45 | 30~35 | 25~30 | 18~25 | 13~18 |
| Tensile Stength /Mpa | TD | ≥1.3 | ≥0.9 | ≥0.7 | ≥0.5 | ≥0.35 | ≥0.3 | ≥0.2 | ≥0.15 |
| | MD | ≥1.5 | ≥1.0 | ≥0.8 | ≥0.6 | ≥0.38 | ≥0.35 | ≥2.5 | ≥0.2 |
| Elongation /% | TD | ≥130 | ≥125 | ≥110 | ≥100 | ≥80 | ≥80 | ≥80 | ≥70 |
| | MD | ≥150 | ≥125 | ≥120 | ≥110 | ≥90 | ≥90 | ≥90 | ≥80 |
| Tearing Stength (KN/m) | TD | ≥ 9 | ≥8 | ≥6 | ≥4 | ≥2.5 | ≥2 | ≥1.5 | ≥1.3 |
| | MD | ≥ 9 | ≥8 | ≥6 | ≥4 | ≥2.5 | ≥2 | ≥1.2 | ≥1.2 |
| Compressed Distortions/%23℃+2℃,22h | | ≤2 | ≤3 | ≤5 | ≤7 | ≤8 | ≤9 | ≤10 | ≤11 |
| Dimension Change /%70℃+2℃,22h | TD | ≤-4 | ≤-4 | ≤-4 | ≤-4 | ≤-6 | ≤-6 | ≤-6 | ≤-6 |
| | MD | ≤-6 | ≤-6 | ≤-6 | ≤-6 | ≤-8 | ≤-8 | ≤-8 | ≤-8 |
| Water Absorbtion (g/cm2)23℃+2℃, 24h | | ≤0.02 | ≤0.02 | ≤0.03 | ≤0.03 | ≤0.04 | ≤0.04 | ≤0.05 | ≤0.05 |
| Thermal Conductivity ( w/mk) | | ≤0.092 | ≤0.082 | ≤0.072 | ≤0.062 | ≤0.053 | ≤0.047 | ≤0.041 | ≤0.038 |

## V Application

HVAC& Air conditioner, Automotive, Building and Construction, Sports & Leisure

### XPE/XLPE Foam Applications