

# PTI® Expansion Joint

### Basic Use:

PTI XPE expansion joint material is made from high quality closed cell, chemically cross linked polyethylene foam. It is used to prevent concrete slabs from cracking and breaking due to the contraction and expansion of concrete caused by changes in temperature, from winter to summer. XPE foam is a light weight, highly durable, moisture resistant, resilient material ideal for all concrete construction.

### Specific Use:

PTI XPE expansion joint material can be used in all standard concrete construction, such as highways, runways, parking garages, driveways, pathways, and floor slabs. It can also be used as a buffer material between different structures such as columns, manhole covers, and adjacent constructions.

### Compatibility:

PTI XPE is compatible with asphalts, bitumen, butyl, polysulfide, acrylic, polyurethane, and silicon.

### Composition and Materials:

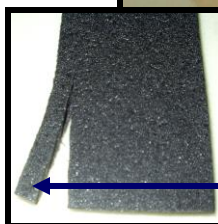
PTI XPE is extruded chemically cross linked polyethylene foam. It is closed cell and moisture resistant, durable and light weight. It is highly flexible and compressible for easy installation.

### Chemical Resistance:

PTI XPE meets a wide range of chemical resistance, such as: acids, solvents, and petroleum.

### Installation:

Choose the correct size (width) of PTI XPE expansion joint material. It has to be the same width or height as the concrete slab to be installed or poured. Lay on the edge of the cured concrete slab on a vertical position with the tear off strip on top (It is recommended to use the XPE expansion joint material with sticky back for ease in installation). Pour or install concrete on the exposed side on the expansion joint material. The expansion joint material acts as a buffer between two concrete slabs. Once concrete slab is cured or set, pull out the tear off strip and pour sealant within the gap created.



10mm peel strip

Physical Properties	Test Method	Value*
Recovery (%)	ASTM D545-99	98.6
Extrusion (in)	ASTM D545-99	0.16
Compressive Strength Vertical Direction (psi)	ASTM D545-99 Suffix D @ 50%	12.3
Compression Set (%)	ASTM D3575-00 Suffix B	16
Tensile Stress (psi)	ASTM D3575-00 Suffix T MD / CMD	44 26
Elongation (%)	ASTM D3575-00 Suffix T MD / CMD	79 65
Tear Resistance (lb/in)	ASTM D3575-00 Suffix G MD / CMD	10 15
Density Range (lb/ft3)	ASTM D3575-00	1.7 (nominal)
Water Absorption (lb/ft2)	ASTM D3575-00 Suffix L	<0.1

**Meets Application Requirements of:**  
**ASTM D 1752 Sections 5.1-5.4** (with the compression requirement modified to 10 psi minimum and 25 psi maximum.)  
**ASTM D 4819 Type II**

### Common applications of PTI Expansion Joint

PTI Expansion Joint®  
 Is made with a peel off top strip feature to assist when Using sealants in the joint.



After the top strip is peeled back, simply apply your sealant.

### Polycell® Standard Specification

Colors*	Black
Thicknesses*	10 mm
Width (Height)* in mm	50, 75, 100
Length of 25 mm Rolls	125, 150, 200, 250, 300

\* Some exceptions apply. Custom thickness, and widths available, please inquire about availability and lead times.

