

# XCELLON Expansion Joint Foam

## Basic Use

Polycell XCELLON 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 from expansion & contraction of concrete caused by changes in climatic conditions.

XCELLON foam is a light weight, highly durable, moisture resistant material ideal for all concrete construction.

## Specific Use

Polycell XCELLON expansion joint material can be used in all standard concrete construction, such as highways, runways, parking areas, driveways, foot paths, and floor slabs. It can also be used as a buffer material between different materials such as columns, manhole covers, and adjacent constructions.

## Compatibility

Polycell XCELLON expansion joint material is compatible with asphalts, bitumen, butyl, polysulfide, acrylic, polyurethane, and silicon.

## Composition and Materials

Polycell XCELLON expansion joint material is an extruded chemically cross linked polyethylene foam. It is closed cell, moisture resistant, durable and light weight. It is highly flexible and compressible for easy installation.

## Chemical Resistance

Polycell XCELLON expansion joint material meets a wide range of chemical resistance, such as: acids, solvents, and petrol.

## Installation

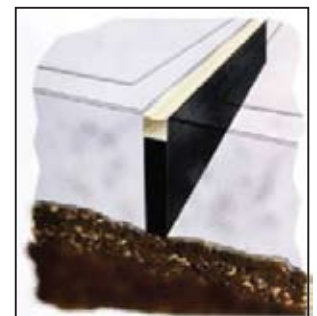
Choose the correct size(width) of Polycell XCELLON expansion joint material. It has to be the same width or height as the concrete slab that is to be installed or poured. Lay on the edge of the cured concrete slab in a vertical position with the tear off strip on top (It is recommended to use the XCELLON expansion joint material with sticky back for ease of 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

## Common applications of Polycell Expansion Joint

Polycell Expansion Joint® is made with a peel off top feature to utilize when using



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

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# XCELLON Expansion Joint Foam

## Product Identification:

Product Name	Cross Linked Polyolefin, PE
Brand Name	<b>XCELLON FOAM</b>
Chemical Family	Polyethylene

## Raw Materials:

Ingredients	Volume (%)
LDPE	30
1500 PE MB Blowing Agent	24
1500 TSK MB Blowing Agent	24
DCP MB Cross-linked Agent	9
FR MB Fire Retardant	9
KCN MB Additive	3
Color MB	1
Silicon Kraft Paper	-
Hot Melt Adhesive	80 gsm

## Standard Xcellon Expansion Joint Available

Colors*	Gray
Thicknesses*	10mm
Width (Height)* in mm	50, 75, 100, 125, 150, 200
	250, 300
Length of Rolls	25 meters
* Some exception apply. Custom thickness, and widths available, please inquire about availability and lead times.	

Physical Properties	Value*
Core Density	28 kg/m <sup>3</sup>
Color	Gray
Odor	Neutral
Tensile Strength (psi)	23.02
Elongation (%)	107.96%
Tear Resistance (kg/cm)	0.49 kg/cm
Resiliency Test (%)	53%
Compression Set @ 50%	62.75%
Thermal Properties	w/ Flame Retardant
Flame Spread Index	25
Smoke Developed Value	50
Burning Classification	Class A
Bending Creep Adhesion Test	180 degrees

## RoHS Test Results:

Test Items	Unit	MDL	Limit	Test Method
Lead	mg/kg	2 ppm	1000	EPA Method 3051A/3052, ICP-AES
Cadmium	mg/kg	2 ppm	100	EPA Method 3051A/3052, ICP-AES
Mercury	mg/kg	2 ppm	1000	EPA Method 3051A/3052, ICP-AES/AAS
Hexavalent Chromium	mg/kg	2 ppm	1000	EPA 3060A & 7196A, UV/Vis Spectrometry
PBB's	mg/kg	100 ppm	1000	EPA 3540C & 3550C, GC/MS
PBDE's	mg/kg	90 ppm	1000	EPA 3540C & 3550C, GC/MS



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**