



Expansion Joint Product Data Sheet

Description

Expansion joint foam is manufactured from high quality, closed cell, chemically cross linked polyethylene foam. Expansion joint foam is a light weight, highly durable, moisture resistant material ideal for all concrete construction where expansion joints and element separation are required. It is available in two standard formats – plain and adhesive backed and from widths varying from 50mm to 300mm.

Basic Use

Expansion joint foam is primarily used as an expansion joint material between concrete slabs and can be used in all standard concrete construction applications including the construction of highways and roadways, airport runways, driveways, foot paths and warehouse floor slabs. Expansion foam can be used as a buffer or isolation material between different concrete elements such as columns, manhole covers, inspection ports and adjacent construction zones.

Compatibility

Expansion joint foam is compatible with asphalts, bitumen, butyl, polysulfide, acrylic, polyurethane, and silicon.

Chemical Resistance

Expansion joint foam provides excellent chemical resistance to acids, solvents, oils and petrol.

Installation

Choose the correct width of expansion joint foam. 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 the top. (It is recommended to use the adhesive backed product for ease of installation). Pour the concrete on the exposed side of the expansion foam. The foam acts as a buffer between two concrete slabs. Once the concrete slab is cured or set, pull out the tear off strip and pour sealant within the gap created.

ASTM - Compliance		
Physical Properties	Test Method	Value
Recovery %	ASTM D545-999	8.6
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/ft ³)	ASTM D3575-00	1.7 (nom)
Water Absorption (lb/ft ²)	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		

RoHS Test Results				
Test Items	Unit	MDL	Limit	Test Method
Lead	mg/kg	2 ppm	1000	EPA Method 3051A3052, ICP-AES
Cadmium	mg/kg	2 ppm	100	EPA Method 3051A3052, ICP-AES
Mercury	mg/kg	2 ppm	1000	EPA Method 3051A3052, 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