

## Product Data Sheet: PE110 - Stiff Expansion Joint Filler Foam



Foam Sales' PE110 Polyethylene Foam Sheets and Expansion Joint Filler Strips are hard, high density, semi-rigid PE foam products. They are most often used in expansion joints where a firmer material than the traditional IXPE30 roll product is required.

**Properties.** The closed cell structure of this PE foam makes it impermeable to water and moisture intrusion, to fungi, bacteria, and to air. It is tough, tear-resistant, semi-rigid and semi-flexible, with moderate to good recovery after repetitive short-term compression. This product is resistant to common acids, alkalies, and chemicals, and is CFC free. Service life in a concealed and chemically neutral environment is expected to be in excess of 100 years.

**Applications.** This range of Stiff Expansion Joint Filler Foam Products is designed for use in expansion joints in concrete, for load deflection in concrete work, and for high impact industrial applications.

**Sheet Thicknesses.** 10mm and 20mm, in full sheets and cut to strips and special customer requirements.

Property	Unit or Measure	PE30 Medium
Sheet Size(nominal)	mm	1850x1250mm
Colour		Black
Cell Structure		Closed Cell
Density	Kg/m <sup>3</sup>	110 +/-5
Hardness (JIS C)	Shore C Scale	50 – 55
Compressive Strength (@25%) (ASTM D 3575-91)	KPa	>120
*Compression Set (JIS K6767-1976)	%	<5
Tear Resistance (JIS K6767-1976)	Kn/m	>6
Tensile Strength (JIS K6767-1976)	Kpa	1000
Water Absorption (JIS K6767-1976)	gm/cm <sup>3</sup>	0.002
Operating Temperature	°C	-70 / +70
Thermal Conductivity (ASTM C 518-1976)	W/m.K	0.045
Resistance to Bacterial attack		Excellent

Resistance to HCl, NaOH @10%		No Reaction
Resistance to Acetone		No Reaction
Resistance to fuel and diesel		No reaction, Slight swelling
Environmental	CFC & HCFC Free	CFC & HCFC Free

\*Compression Set @25% depression after 22hours plus 24 hours recovery