

FOAMFLEX HPE 90

CHEMICALLY CROSSLINKED POLYETHYLENE FOAM

It is PE based, 90 density heat and sound insulation.

It provides sound insulation with its air holding feature. It is a cross-linked closed cell structure.

Values consisting of chemically crosslinked polyethylene foam shall be installed in the floating list, having the properties listed below:

Pyhsical Features	Test Method	Units	XLPE
Density	ISO 845	kg/m ³	90 ± %10
Tensile Strength	ASTM D3575	kPa	≥ 650000
Impact Sound Reduction		dB	22 /10 mm
Sound Transmission Reduction		dB	38 /10 mm
Elongation - Transversally	ASTM D3576	%	> 150
Elongation - Longitudinally	ASTM D3577	%	> 150
Compression set %50, 72 hours	EN ISO 1856:1999	%	< 38
Hardness	TS 2013 EN ISO 1856:1999	Shore A	24
Thermal Conductivity	TS EN 12667	W/Mk	0.038
Water Absorption	TS EN 12087:2002	kg/m ²	0.0060
Vapor Diffusion		μ	≥ 5000
Fire Response Class	TS EN 13501-1:2007		E
Flammability	TS EN 11925-2:2004		Passed
Utilization Temperature		°C	-40 +100
Dimension Stability - Transversally (48 h 70°C)	TS EN 1604	%	0.3
Dimension Stability - Longitudinally (48 h 70°C)	TS EN 1604	%	0.8
Surface Resistance	DIN EN 100 015/1 ASTM D257		

Areas of Usage:

- Used under parquet and screed as an impact sound preventer,
- As a sound barrier in living areas,
- Used together with other sound insulation materials in mechanical rooms.
- Used as under-screed sound insulation barrier on lean concrete between floors

Other features:

- Closed cell structure, water and moisture resistant.
- Effective airborne sound and impact welded and heat insulation capacity.
- Eco-friendly, containing no HCFC and harmful / banned chemicals.
- Compatible with RoHS which limits the use of lead and other toxic substances.
- Containing no fungi or bacteria, odourless.
- Recovers itself after impact, does not cave in.
- Can be shaped by heating (thermoforming).

