

# Chemically Cross-Linked Polyethylene Foam (DecibelFoam)

## Technical Datasheets

Physical Features	Test Method	Units	XLPE
Density	ISO 845	kg/m <sup>3</sup>	30 ± %10
Max. Force Fmax	ASTM D3575	kN	32,4
Elongation at max force	ASTM D3575	mm	42,3
Tensile Strength	ASTM D3575	kN/mm <sup>2</sup>	0,3
Fracture Force	ASTM D3575	kN	30,9
Elongation-transversally	ASTM D3575	%	142,9
Elongation-longitudinally	ASTM D3575	%	118,8
Yield Stress	ASTM D3575	kN/mm <sup>2</sup>	7,7
Compression Resistance %25 Compression %50 Compression %75 Compression	ISO 844	MPa	0,035 0,086 0,212
Compression Set %50, 72 hours	EN ISO 1856:1999 - ASTM D 395	%	5
Hardness	TS 2013 EN ISO 1856:1999 ASTM D 2240	Shore A	15
Flammability-Automotive	FMVSS 302	mm/dk	N.A.
Thermal Conductivity	TS EN 12667	W/Mk	0,0352
Water Absorption	TS EN 12087:2002 - ASTM D 1056	kg/m <sup>2</sup>	0,10
Fire Response Class	ASTM D635-18		E
Flammability	TS EN 11925-2:2004 ASTM D635-18		PASS
Utilisation Temperature		°C	-40 +120
Dimensional Stability-transversally (48 saat 70 °C)	TS EN 1604	%	0,3
Dimensional Stability-longitudinally (48 saat 70 °C)	TS EN 1604	%	0,8
Thermal conductivity coefficient at 10 °C (λ -value)	TS EN 12667	W/mK kcal/mh °C	0,0359 0,0309

NOTE : Typical values measured on a 8 mm thickness sample are shown

## Other Features

- Easy to use and install.
- Effective sound absorption capacity.
- Closed cell structure.
- Low heat permeability.
- Ideal flexible structure.
- Structure is not affected by chemicals.
- It does not smell.
- It is environmentally friendly.
- Single and double face foil film tape and fabric lamination on request.
- Plate production up to 100 mm thickness.
- Customized color production.

## Compatible with standards RoHS and REACH

XLPE, Restriction of Hazardous Materials which limits the use of lead and other toxic substances which may harm the environment (RoHS, Restriction of Hazardous Substances) sproduced in compliance with standards. It complies with European Union Directive 2001/95 / EC and REACH Standards.

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