



BENEFITS

- Completely closed cell
- Fine, regular cell structure
- Good mechanical properties
- Excellent thermal insulating
- Permanently elastic
- Minimal water absorption
- Very low water vapour permeability
- Good resistant to most chemicals
- Permanently resilient
- Environmentally friendly
- Non-toxic
- Does not contain CFCs
- Good adhesion

SIREX PE C45

SIREX PE C45 is a closed-cell chemical cross-linked PE foam with a density of approx. 42 kg/m³. Standard size of a base block is approx. 2000 x 1000 x 110 mm.

PROCESSES AND APPLICATIONS

SIREX PE C45 is available in the desired thickness and shape. For example, the following processing techniques can be applied to the material: skiving, laminating, cutting, punching, milling, water-jetting, laser, butt welding, self-adhesive and thermoforming.

Some applications of the SIREX PE C45 are:

Industrial gaskets, insulation, boat fenders, (presentation) packaging, cutting – punching parts and water play equipment.



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TECHNICAL INFORMATION

PROPERTIES	NORM	UNIT	VALUE
Thickness	IE-03	mm	110 ± 5
Length	IE-03	mm	≥ 2000
Width	IE-03	mm	≥ 1000
Density	IE-04	kg/m ³	42 ± 5
Cell size	-	mm	≤ 0,22
Elongation at break	IE-06	%	127
Tensile Strength	IE-06	kPa	271
Compression strength	IE-05		
10% compression		kPa	64
25% compression		kPa	80
40% compression		kPa	141
Compression Set, 25%, 22 h	IE-07		
0,5 h recovery		%	9
24 h recovery		%	4
Shore hardness	IE-08	∞	≥ 57
Water Absorption (28 days)	DIN 53428		
vol% water absorption		%	1
Maximum working temperature	IE-02	°C	100
Thermal conductivity	ISO 2581		
at 10 °C		W/mK	0,037
at 40 °C		W/mK	0,040
Flammability thickness 10 mm	ISO 3795	mm/min	≤ 100

The internal norms IE-03, IE-04, IE-05, IE-06 and IE -07 are based by standards ISO 1923, ISO 845, ISO 844, ISO 1926 and ISO 1856-B, respectively.