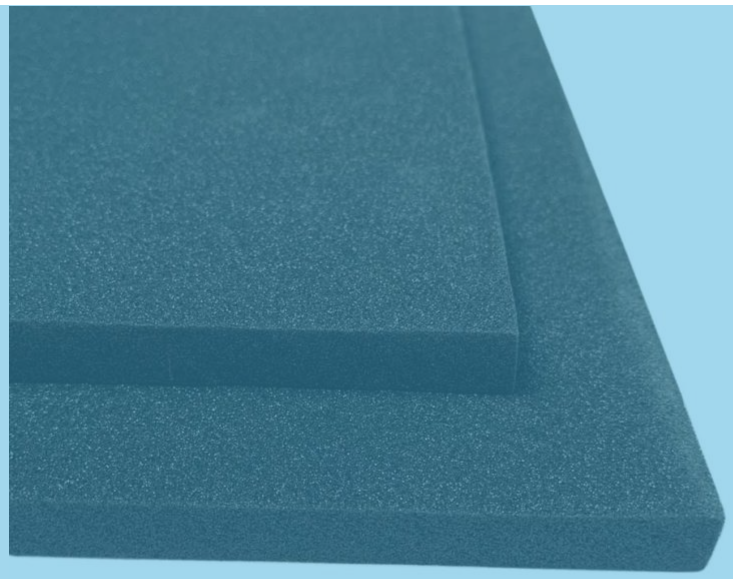
DATASHEET
SIREX® PE N24 FR



BENEFITS

- Consistent cell size and structure
- Outstanding purity
- Exceptional isotropic physical performance
- Extremely low odour
- Special grade with increased flame-retarding properties

SIREX PE N24 FR

SIREX® PE N24 FR is a closed cell, high-performance crosslinked PE foam. SIREX® PE N24 FR has a very fine and uniform cell structure. SIREX® PE N24 FR is chemically inert, odourless, environmentally friendly, recyclable and free from harmful chemical additives. SIREX® PE N24 FR is delivered in blocks and is on demand also available in sheets at desired thickness, strips, with self-adhesive and much more. Don't hesitate to contact us for additional information regarding the possibilities.

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TECHNICAL INFORMATION

The values provided in this datasheet represent data gathered from random samples of the production of SIREX® PE N24 FR and represent typical data. These are given to the best of our knowledge and should be considered as guidance for selecting a suitable grade for a given application.

PROPERTY	TEST STANDARD	UNITS	TYPICAL VALUE
Apparent Density Skin/Skin	BS EN ISO 7214:2012	kg/m^3	 24 (nominal)
Cell Size (Cell Diameter)	Internal	mm	0.3
Compression Stress-Strain 25% compression 50% compression	BS EN ISO 7214:2012 25 mm cell-cell	kPa	 52 116
Tensile Strength **Tensile Elongation**	BS EN ISO 7214:2012	kPa %	253 101
Flammability **Aviation**	CS 25.853 App. F 1a 1ii FAR 25.853 App. F 1a 1ii		12 second test Pass at 3mm & 12mm
Flammability **UL94**	 UL94 Ed.6		HF1 Min thickness 3mm
Compression Set 25% comp., 22hr, 23°C ½ h recovery 24 h recovery	BS EN ISO 7214:2012 25 mm cell-cell	% set	 13 6
Tear Strength	BS EN ISO 8067:2008 Method B	N/m	1080
Shore Hardness OO Scale	BS EN ISO 868:2003		 52
Recommended maximum operating temperature*	Internal	°C	90
Water Absorption	ISO 2896:2001 Ed3.	%	< 1
Thermal Conductivity Mean temperature 10°C	ISO 8301:1991	W/mK	0.034

*** RECOMMENDED MAXIMUM OPERATING TEMPERATURE**

The maximum operating temperature shown is defined as the temperature which will typically cause a linear shrinkage of 5% after a 24hr exposure period, using sample dimensions of 100mm x 100mm x 25mm. This figure is provided for general guidance only. The actual level of shrinkage the foam will undergo at any particular temperature is dependant on a number of system variables such as, sample dimensions, cell size, loading conditions and exposure period.