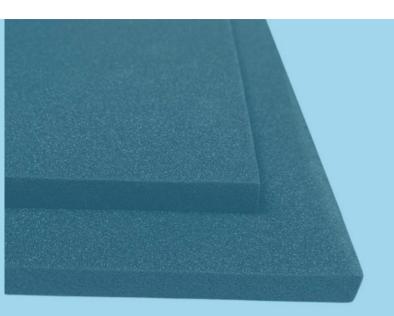


# DATASHEET SIREX® PE N45



### **BENEFITS**

- Consistent cell size and structure
- Outstanding purity
- Exceptional isotropic physical performance
- Extremely low odour

## **SIREX PE N45**

SIREX® PE N45 is a closed cell, high-performance crosslinked PE foam. SIREX® PE N45 has a very fine and uniform cell structure. SIREX® PE N45 is chemically inert, odourless, environmentally friendly, recyclable and free from harmful chemical additives. SIREX® PE N45 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**

PROPERTY	TEST STANDARD	UNITS	TYPICAL VALUE
Apparent Density	BS EN ISO 7214:2012	kg/m³	
Skin/Skin			45 (nominal)
Cell Size (Cell Diameter)	Internal	mm	0.4
Compression Stress-Strain	BS EN ISO 7214:2012	kPa	
25% compression	25 mm cell-cell		90
50% compression			163
Tensile Strength	BS EN ISO 7214:2012	kPa	537
Tensile Elongation		%	155
Flammability	FMVSS.302 – Burn rate	<100	Pass at 6 mm
Automotive		mm/min	
Compression Set	BS EN ISO 7214:2012	% set	
25% comp., 22hr, 23°C	25 mm cell-cell		
½ h recovery			8
24 h recovery			3
Tear Strength	BS EN ISO 8067:2008 Method B	N/m	2414
Shore Hardness	BS EN ISO 868:2003		
OO Scale			63
Recommended maximum	Internal	°C	100
operating temperature*			
Water Absorption	ISO 2896:2001 Ed3.	%	<1
Thermal Conductivity	ISO 8301:1991	W/mK	0.041
Mean temperature 10°C			

## \* 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.



