



## BENEFITS

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

## SIREX PE N45 FR

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



ISMT B.V.  
Küppersweg 18  
NL - 2031 EC Haarlem



Niederlassung Deutschland  
Flughafenstraße 59  
D - 70629 Stuttgart



+31 (0)88 018 4900  
+49 (0)7154 3091



[www.ismt-bv.com](http://www.ismt-bv.com)  
[sales@ismt-bv.com](mailto:sales@ismt-bv.com)



Our documentation, product information, recommendations and price lists have been compiled to the best of our knowledge and ability, and are based on average values and data known at the time of writing. They are not legally binding in any way



**TECHNICAL INFORMATION**

| PROPERTY                                                                         | TEST STANDARD                                       | UNITS             | TYPICAL VALUE                        |
|----------------------------------------------------------------------------------|-----------------------------------------------------|-------------------|--------------------------------------|
| <b>Apparent Density</b><br>Skin/Skin                                             | BS EN ISO 7214:2012                                 | kg/m <sup>3</sup> | 45 (nominal)                         |
| <b>Cell Size (Cell Diameter)</b>                                                 | Internal                                            | mm                | 0.4                                  |
| <b>Compression Stress-Strain</b><br>25% compression<br>50% compression           | BS EN ISO 7214:2012<br>25 mm cell-cell              | kPa               | 88<br>162                            |
| <b>Tensile Strength</b>                                                          | BS EN ISO 7214:2012                                 | kPa               | 449                                  |
| <b>Tensile Elongation</b>                                                        |                                                     | %                 | 158                                  |
| <b>Flammability</b><br><b>Aviation</b>                                           | CS 25.853 App. F 1a 1ii<br>FAR 25.853 App. F 1a 1ii |                   | 12 second test Pass<br>at 3mm & 12mm |
| <b>Flammability</b><br><b>UL94</b>                                               | UL94 Ed.6                                           |                   | HF1<br>at 3mm                        |
| <b>Compression Set</b><br>25% comp., 22hr, 23°C<br>½ h recovery<br>24 h recovery | BS EN ISO 7214:2012<br>25 mm cell-cell              | % set             | 8<br>3                               |
| <b>Tear Strength</b>                                                             | BS EN ISO 8067:2008 Method B                        | N/m               | 2404                                 |
| <b>Shore Hardness</b><br>OO Scale                                                | BS EN ISO 868:2003                                  |                   | 61                                   |
| <b>Recommended maximum operating temperature*</b>                                | Internal                                            | °C                | 105                                  |
| <b>Water Absorption</b>                                                          | ISO 2896:2001 Ed3.                                  | %                 | <1                                   |
| <b>Thermal Conductivity</b><br>Mean temperature 10 °C                            | ISO 8301:1991                                       | W/mK              | 0.038                                |

**\* 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.