

SPX is a closed cell, cross-linked expanded Polyethylene foam available in various densities, which is suitable for use in packaging, padding, buoyancy, gasketing and footwear components. The SPX product range is free from CFC's and HCFC's.

| PROPERTY | UNIT | TEST METHOD | NOMINAL ⁽¹⁾ | RANGE |
|--|---------------------|---------------|------------------------|------------------------|
| DENSITY: | kg / m ³ | ISO 845 | 31 | 26 - 37 ⁽²⁾ |
| TENSILE STRENGTH: | | | | |
| CD | kPa | ISO 1798 | 271 | >220 |
| MD | kPa | ISO 1798 | 275 | >225 |
| ELONGATION: | | | | |
| CD | % | ISO 1798 | 189 | >137 |
| MD | % | ISO 1798 | 181 | >136 |
| COMPRESSION DEFLECTION: | | | | |
| 10 % | kPa | ISO 3386 / 1 | 38 | 26 - 49 |
| 25 % | kPa | ISO 3386 / 1 | 54 | 42 - 67 |
| 50 % | kPa | ISO 3386 / 1 | 106 | 88 - 124 |
| COMPRESSION-SET: | | | | |
| 25 % 22 hr COMP / 30 min REC | % | ISO 1856 | 13 | <17 |
| 25 % 22 hr COMP / 24 hr REC | % | ISO 1856 | 3 | < 6 |
| 50 % 22 hr COMP / 30 min REC | % | ISO 1856 | 26 | <31 |
| 50 % 22 hr COMP / 24 hr REC | % | ISO 1856 | 15 | <20 |
| MAXIMUM OPERATING TEMPERATURE: ⁽³⁾ | °C | INTERNAL | 90 | N/A |
| BURN RATE: ⁽⁴⁾ | mm / min | INTERNAL | | <100 |
| BURN RATE: ⁽⁵⁾ | mm / sec | ISO 3582 | 1.03 | <1.3 |
| SHORE HARDNESS: | OO | INTERNAL | 54 | 50 - 59 |
| THERMAL CONDUCTIVITY: | | | | |
| 10 mm | W / m.K | ASTM C-518 | 0.037 | |
| 20 mm | W / m.K | ASTM C-518 | 0.037 | |
| WATER ABSORPTION: | % | ASTM D 570-98 | < 1 | < 1 |

- NOMINAL:**
Indicative average value.
- DENSITY:**
Based on 90 % net bun yield.
- MAXIMUM OPERATING TEMPERATURE:**
Defined as the temperature which will typically cause an average linear shrinkage of no more than 5 % after a 24 hour exposure period. The percentage shrinkage of a sample, having the dimensions 100mm by 100mm by 10mm, with respect to its length, width and thicknesses is used to calculate the average linear shrinkage. The degree of shrinkage depends on the material type, density, temperature, exposure time, part dimensions and cell size. Other temperatures may prove to be limiting depending on the particular conditions of each application. The above quoted value will be deemed not applicable, if any deviation from the above mentioned sample dimensions are to occur.
- BURN RATE:**
A 10mm thick sample is used to determine the horizontal burn rate of the relevant material. The above quoted value will be deemed not applicable, if any deviation from the above mentioned sample dimensions are to occur. Test based on FMVSS302.
- BURN RATE:**
A 13mm thick sample is used to determine the horizontal burn rate of the relevant material. The above quoted value will be deemed not applicable, if any deviation from the above mentioned sample dimensions are to occur.

PLEASE NOTE:
 The above results are obtained based on the referenced test methods and are to be regarded as typical values which are not usually directly comparable with those of any product tested to other test methods, i.e.: DIN. Tests were conducted at ambient temperature and humidity unless otherwise stated.



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