

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	26	21 - 31 ⁽²⁾
TENSILE STRENGTH:				
CD	kPa	ISO 1798	202	>162
MD	kPa	ISO 1798	205	>165
ELONGATION:				
CD	%	ISO 1798	153	>120
MD	%	ISO 1798	148	>114
COMPRESSION DEFLECTION:				
10 %	kPa	ISO 3386 / 1	22	12 - 33
25 %	kPa	ISO 3386 / 1	38	28 - 48
50 %	kPa	ISO 3386 / 1	85	70 - 101
COMPRESSION-SET:				
25 % 22 hr COMP / 30 min REC	%	ISO 1856	19	<29
25 % 22 hr COMP / 24 hr REC	%	ISO 1856	9	<20
50 % 22 hr COMP / 30 min REC	%	ISO 1856	39	<58
50 % 22 hr COMP / 24 hr REC	%	ISO 1856	25	<46
MAXIMUM OPERATING TEMPERATURE: ⁽³⁾				
	°C	INTERNAL	90	N/A
BURN RATE: ⁽⁴⁾				
	mm / min	INTERNAL		<100
BURN RATE: ⁽⁵⁾				
	mm / sec	ISO 3582	1.18	<1.7
SHORE HARDNESS:				
	00	INTERNAL	45	37 - 53
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 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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