

SPX FRA is a closed cell, cross-linked expanded Polyethylene foam containing a Flame Retardant Additive, which is suitable for applications where flame retardant foam is required. The SPX product range is free from CFC's and HCFC's.

PROPERTY	UNIT	TEST METHOD	NOMINAL <sup>(1)</sup>	RANGE
<b>DENSITY:</b>	kg / m <sup>3</sup>	ISO 845	32	26 - 38 <sup>(2)</sup>
<b>TENSILE STRENGTH:</b>				
CD	kPa	ISO 1798	275	>229
MD	kPa	ISO 1798	279	>230
<b>ELONGATION:</b>				
CD	%	ISO 1798	168	>112
MD	%	ISO 1798	160	>106
<b>COMPRESSION DEFLECTION:</b>				
10 %	kPa	ISO 3386 / 1	42	31 - 52
25 %	kPa	ISO 3386 / 1	57	45 - 70
50 %	kPa	ISO 3386 / 1	111	94 - 128
<b>COMPRESSION-SET:</b>				
25 % 22 hr COMP / 30 min REC	%	ISO 1856	13	<16
25 % 22 hr COMP / 24 hr REC	%	ISO 1856	4	< 6
50 % 22 hr COMP / 30 min REC	%	ISO 1856	30	<42
50 % 22 hr COMP / 24 hr REC	%	ISO 1856	18	<28
<b>MAXIMUM OPERATING TEMPERATURE:</b> <sup>(3)</sup>	°C	INTERNAL	90	N/A
<b>BURN RATE:</b> <sup>(4)</sup>	mm / min	INTERNAL	-	SE <sup>(5)</sup>
<b>SHORE HARDNESS:</b>	OO	INTERNAL	56	51 - 60
<b>THERMAL CONDUCTIVITY:</b>				
10 mm	W / m.K	ASTM C-518	0.037	
20 mm	W / m.K	ASTM C-518	0.037	
<b>WATER ABSORPTION:</b>	% <sup>m</sup> / <sub>v</sub>	INTERNAL	0.4	<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.
- SELF-EXTINGUISHING:**  
The material will not combust for >20 seconds after ignition source has been removed.

**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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PERFORMANCE FOAMS



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