

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	113	105 - 120 ⁽²⁾
TENSILE STRENGTH:				
CD	kPa	ISO 1798	1344	>1165
MD	kPa	ISO 1798	1409	>1252
ELONGATION:				
CD	%	ISO 1798	162	> 126
MD	%	ISO 1798	181	>145
COMPRESSION DEFLECTION:				
10 %	kPa	ISO 3386 / 1	262	212 - 313
25 %	kPa	ISO 3386 / 1	285	236 - 335
50 %	kPa	ISO 3386 / 1	398	337 - 459
COMPRESSION-SET:				
25 % 22 hr COMP / 30 min REC	%	ISO 1856	4.39	< 7
25 % 22 hr COMP / 24 hr REC	%	ISO 1856	2.49	< 3
50 % 22 hr COMP / 30 min REC	%	ISO 1856	10.28	<17
50 % 22 hr COMP / 24 hr REC	%	ISO 1856	5.90	< 8
MAXIMUM OPERATING TEMPERATURE: ⁽³⁾				
	°C	INTERNAL	100	N/A
SHORE HARDNESS:				
	A°	INTERNAL	40	36 - 45

- 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.

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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CAPE TOWN: Tel: (021) 959 9400, Fax: (021) 959 9434, E-mail: ctn@sondor.co.za **DURBAN:** Tel: (031) 705 4220, Fax: (031) 705 4566, E-mail: dbn@sondor.co.za **JOHANNESBURG:** Tel:(011) 452 4530, Fax: (011) 452 4532, E-mail: jhb@sondor.co.za
PORT ELIZABETH: Tel: (041) 486 2231, Fax: (041) 486 2234, E-mail: pe@sondor.co.za **PRETORIA:** Tel: (012) 803 4471, Fax: (012) 803 4400, E-mail: pta@sondor.co.za **EXPORTS:** Tel: +27-21-959 5900, Fax: +27-21-959 5901, E-mail: exports@sondor.co.za
HEAD OFFICE: Tel: (021) 959 5900, Fax: (021) 959 5901, E-mail: ho@sondor.co.za **EAST LONDON AGENT –** Jonny Grant 043 7433067/68
BLOEMFONTEIN AGENT – Build OFS 051 435 4880 **ZIMBABWE AGENT -** Security Devices/Leisure Lifestyle 00263 4 487064/5

WEB ADDRESS: www.sondor.co.za