

The Ortholite product is the combination of cross-linked expanded EVA (Vinyl Acetate) and EPDM (Ethylene Propylene Diene Monomer). It is suitable for use in footwear, orthopaedic applications and healthcare products. The Orthosuperior 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	106	102 - 108 <sup>(2)</sup>
<b>TENSILE STRENGTH:</b>				
CD	kPa	ISO 1798	955	>897
MD	kPa	ISO 1798	972	>908
<b>ELONGATION:</b>				
CD	%	ISO 1798	400	>383
MD	%	ISO 1798	413	>399
<b>COMPRESSION DEFLECTION:</b>				
10 %	kPa	ISO 3386 / 1	50	45 - 55
25 %	kPa	ISO 3386 / 1	79	71 - 83
50 %	kPa	ISO 3386 / 1	161	149 - 173
<b>COMPRESSION-SET:</b>				
25 % 22 hr COMP / 30 min REC	%	ISO 1856	23	<25
25 % 22 hr COMP / 24 hr REC	%	ISO 1856	24	<26
50 % 22 hr COMP / 30 min REC	%	ISO 1856	21	<30
50 % 22 hr COMP / 24 hr REC	%	ISO 1856	24	<30
<b>MAXIMUM OPERATING TEMPERATURE: <sup>(3)</sup></b>	°C	INTERNAL	90	N/A
<b>BURN RATE: <sup>(4)</sup></b>	mm / min	INTERNAL	N/A	N/A
<b>SHORE HARDNESS:</b>	OO	INTERNAL	64	63 - 66
<b>THERMAL CONDUCTIVITY:</b>				
10 mm	W / m.K	ASTM C-518	N/A	N/A
20 mm	W / m.K	ASTM C-518	N/A	N/A
<b>WATER ABSORPTION:</b>	% <sup>m</sup> / <sub>v</sub>	INTERNAL	N/A	N/A

- 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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