

EVA (Ethylene-vinyl acetate)



EVA - What it is...

Ethylene-vinyl acetate (EVA) is the copolymer of ethylene (E) and vinyl acetate (VA). The VA content can vary by 10% to 60% depending on the properties required. A Higher VA content gives more rubber like qualities. We can offer a wide range of materials but keep in stock four grades. All offer rubber like qualities in softness and flexibility. All have a low compression set.

EVA - Material Properties.



Closed Cell.
Resistance to UV
Good Buoyancy
Good recovery to original shape after compression.
Many densities and colours available.
Excellent for printing on.

EVA - Many Uses.

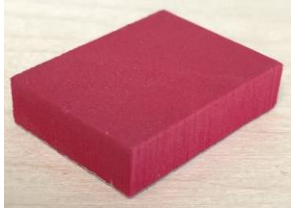
Shock Absorption in sports shoes and Orthotics
Childs Toys
Arts and Crafts
Sports Mats
Gaskets
Water Sports



Stock Grades.

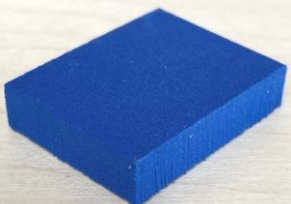
<p><u>W.O.L.F 15.</u> in colours Black, Grey and Blue</p> <p>Sheet size 1m x 1.5m</p> <p>Any thickness up to 46mm thick</p>			
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<p>Propel 15 in colours Light Tan</p> <p>Sheet size 85cm x 110cm</p> <p>Any thickness up to 30mm thick</p>	
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<p>Propel 25 in colours Red</p> <p>Sheet size 85cm x 90cm</p> <p>Any thickness up to 30mm thick</p>	
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<p>Propel 35 in colours Dark Red</p> <p>Sheet size 82cm x 85cm</p> <p>Any thickness up to 30mm thick</p>	
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<p>Propel 45 in colours Light Grey</p> <p>Sheet size 80cm x 80cm</p> <p>Any thickness up to 30mm thick</p>	
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<p>Propel 55 in colours Dark Blue</p> <p>Sheet size 75cm x 75cm</p> <p>Any thickness up to 30mm thick</p>	
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	<h2 style="margin: 0;">Specification Sheet</h2>

	Product Reference Type					
Elastomer / Polymer type	EVA					
	W.O.L.F 15	Propel 15	Propel 25	Propel 35	Propel 45	Propel 55
Property						
Colour	Black, Grey & Blue	Light Tan	Red	Dark Red	Light Grey	Dark Blue
Length and Width mm	1m x 1.5m	85 x 110cm	85 x 90cm	82 x 85cm	80 x 80cm	75 x 75cm
Density (kg/M ³)	90 +/-20	170 +/- 20	200 +/- 20	225 +/- 20	250 +/- 30	330 +/- 30
Shore 'A'	15 +/- 5	15 +/-5	25 +/- 5	35 +/- 5	40 - 45	50 – 55
Shore 'O'	60 +/-10	60 +/- 10				
Elongation at Break (%)	≥ 210	≥ 500	≥ 330	≥ 300	≥ 180	≥ 150
Tensile Strength (kPa)	≥ 1020	≥ 1400	≥ 1600	≥ 2100	≥ 1600	≥ 2400
Compression Deflection @ 25% (kPa) ASTM D1056	≥ 65	≥ 72	≥ 120	≥ 160	≥ 250	≥ 320
Compression Deflection @ 50% (kPa) ASTM D1056	≥ 125	≥ 150	≥ 230	≥ 325	≥ 320	
Compression Deflection Change after Oven aging % ASTM D 1056 168hrs at 70 deg c						
Compression Set (50% 22h) ASTM D1056-00 @ 23°C	≤ 15	≤ 4,8	≤ 12	≤ 9	≤ 12	≤ 8
Compression Set (50% 22h) ASTM D1056-00 @ 40°C						
Compression Set (50% 70h) ASTM D3574 D @ 20°C						
Compression Set (50% 22h) ASTM D3574 D @ 70°C						
Water Absorbtion %						
Tear Resistance (N/mm)						
Temperature Range (°C Low - High)	-10 / +70	-10 / +70	-10 / +70	-10 / +70	-10 / +70	-10 / +70
Temprature High Intermittent °C						
Resistance to Air and UV						
Resistance to Oil						
Resistance to Acids						

If any specific test result is required we can ask the question on the manufacturer.