

Vacuum Forming Silicone Sheet

Premium quality high tear and high elongation silicone membrane sheets for vacuum forming applications.

Key Characteristics

- Extreme high tear resistance
- High elongation
- Excellent abrasion resistance
- Long life
- Repairable

Form

1800mm wide and 1000mm long, up to 10m long.
Four standard thickness options: 1.0mm, 1.5mm, 2.0mm and 3.0mm

Colour

Translucent

Typical Characteristics

<u>Test</u>	<u>Result</u>	<u>Standard</u>
Brittle Point	-80°C (-112°F)	ASTM D746
Limiting Oxygen Index	24.0%	BS 2782 Part 1
Thermal Conductivity	0.24 W.m-1.K-1	VDE 0304
Radiation Resistance	>105 Grays (107 Rads) typical	-
Dielectric Strength	23 kV.mm-1	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor	3x10-4	VDE 0303
Volume Resistivity	3x10 ¹⁵ Ω.cm	VDE 0303
Service Temp	-60°C to +230°C (short term 250°C)	-

Mechanical Properties

<u>Property</u>	<u>Units</u>	<u>Spec Limits</u>	<u>Typical Value</u>	<u>Test Method</u>
Hardness	Shore A	50±5	50	ASTM D2240 DIN 53505
Tensile Strength	MPa Psi	7.0 min 1015 min	8.5 1233	BSISO 37 ASTM D412 die C
Elongation to Failure	%	600 min	750	BSISO 37 ASTM D412 die C
Tear Strength	N/mm Lb./in.	35.0 min 200 min	40.0 228	ASTM D624 die B

Although the technical details and recommendations made correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intend to use Polymax products must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.