

Mosites I453D High Strength Silicone Rubber

- Mosites I453D is a very high quality, high strength silicone rubber compound, which is a market leading, aerospace grade, silicone rubber
- Developed for use as a vacuum membrane in advanced composite fabrication applications, where high strength and resistance to elevated temperatures, pressures and aggressive volatile attack, is required over long periods
- Available in cured and uncured roll form, in a range of standard thicknesses and in widths up to 1.37m. Aerovac is able to fabricate very wide width membranes, utilising either butt joint or vulcanised seamless joint technology
- Good resistance to compression set. Has been used to manufacture shaped, inflatable pressure bags, for applications requiring critical dimensional stability
- The product has a service temperature of over 230°C
- The physical properties shown below were obtained on 2mm thick moulded ASTM samples. They are typical of I453D, but they should not be used to set Quality Control specification, minimum requirements

PHYSICAL PROPERTIES

• Hardness	50 shore A
• Tensile Strength	1400 psi
• Elongation at Break	650%
• Modulus at 300% Elongation	600 psi
• Tear Strength	250 ppi
• Specific Gravity	1.15
• Compression Set	38% (22 Hours at 176°C)
• Colour	Grey

AVAILABILITY & PACKAGING

• Thickness	0.76mm, 1.52mm, 2.16mm & 3.18mm
• Standard width	1.37m Cut pieces and wider, jointed pieces are available on request

STORAGE & HANDLING

- Store cured rubber in protective packaging away from sharp objects
- For optimum life, uncured rubber should be kept refrigerated when not in use
- For advice on handling and the ideal curing conditions for uncured rubbers, please contact our technical department

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