

MOSITES #1453-D Silicone

Mosites#1453-D is a 50 durometer, high strength silicone compound for use as a reusable vacuum blanket in forming composite aerospace articles. It is available in cured or uncured sheet form in all standard thicknesses and in widths of up to 72 inches.

Cured custom made-vacuum blankets are furnished by Mosites Rubber Company in sizes up to 12 feet wide by 33 feet in length, also in all standard thicknesses. The compound is used to fabricate contoured, inflatable pressure bladders and is extruded into various shaped profiles or rods for use as vacuum or high pressure sealing members.

Mosites #1453-D possesses excellent retention of physical properties after exposure to the high pressures and elevated temperatures encountered in autoclave cure cycles of composite manufacturing. The product has a service temperature range of -100°F to +450°F.

The physical properties shown below were obtained on 0.080 inch thick molded ASTM samples. They are typical of Mosites #1453-D, but they should not be used to set Quality Control Specification minimum requirements.

<u>Typical Physical Properties</u>	
Hardness (Shore A)	50
Tensile Strength (psi).....	1400
Elongation at Break (%).....	650%
Modulus at 300% Elongation (psi).....	600
Tear Strength (ppi).....	250
Specific Gravity.....	1.15
Compression Set (%)..... (22 Hours at 350° F)	21%
Color.....	Gray