

SILICONE

MATERIAL REPORT

Description

Silicone rubber is a very versatile material by the mere fact that the temperature range is more extreme than other synthetic rubbers. The silicone rubber is inert, very flexible and can be used in medical and FDA environments. In addition to temperature, silicone rubber has superior resistance to water and makes an excellent electrical insulator.

Technical Properties:

ITEM	UNIT	TEST STANDARD	TEST CONDITION	TEST METHOD	RESULTS
Appearance	—	semitransparent	—	—	semitransparent
Plasticity	.01 mm	230 ± 50	49N X 70°C X 3 min	GB/T 12828	248
Hardness	Shore A	60 ± 3	1% C-6B/170°C X 10 min	GB/T 531	61
Specific Gravity	g/cm ³	1.19 ± 0.05	1% C-6B/170°C X 10 min	GB/T 533	1.198
Tensile Strength	Mpa	≥6	1% C-6B/170°C X 10 min	GB/T 528	8.3
Elongation	%	≥300	1% C-6B/170°C X 10 min	GB/T 528	550
Tensile Set	%	≤8	1% C-6B/170°C X 10 min	GB/T 528	5.1
Tear Strength	N/mm	≥18	1% C-6B/170°C X 10 min	GB/T 529	30.0



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