



Silicone Sponge

Product Data - Grades AD16,

Introduction

Silicone rubbers are substances whose chemical skeleton is made up of extremely stable silicon-oxygen linkages. They are chemically related to quartz and glass and many of their excellent properties are similar to those of the latter material. During vulcanisation they are cross-linked, with the appropriate use of fillers, catalyst and blowing agent etc., to form a three dimensional, flexible, sponge like substance. After the vulcanisation process is complete the general appearance of silicone sponge is a fine non-interconnecting cell structure encapsulated by a soft smooth outer surface skin. Silicone sponge components offer excellent thermal stability in the most exacting of applications and has the ability to withstand extreme variations in temperature from -50 degrees C up to +250 degrees C.

General Properties

1. Resistance to ultraviolet light and corona is good.
2. Resistance to arching and ozone is good.
3. Oxidation is virtually non-existent.
4. Minimal water absorption.
5. Possesses valuable non-stick properties.
6. Excellent for vibration, damping and cushioning components.
7. Generally resistant to moderate or oxidising chemicals.

Specific Data

AD 16

Density (lbs/cu.ft.)	16+/-4
g/cm ³	0.25+/-0.06
Elongation %	225
Compression set %	15
Force at Break - newtons	65
Temperature (Max) C	200
Temperature (Min) - C	-50
Toxity NES 713 ISS.3	1.4
Smoke Index NES 711 ISS.2	46
Burn rate Bs 4735: 1974	0.03mm/s
Thermal Conductivity	0.0695 W(m.k.)

N.B. All samples tested were produced under normal manufacturing conditions.