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Silicone Sponge Rubber 16Lb WJSPSIL16LB

Product Form

Profile extrusions, sheeting, cord, joined rings, punched forms and self adhesive backed.

Applications

Cellular silicone rubber is suitable where a soft, easily deformed rubber is required, for example, for high temperature seals and gaskets. The sheets and punched parts are all available with self-adhesive backing to ease assembly.

Thermal Properties

The range is suitable for continuous use at temperatures up to +200°C. It has even been found that at temperatures as high as +300°C useful lives of up to 10 hours can be achieved. They are also suitable for use at temperatures as low as -60°C.

Chemical Composition

This range of polydimethylsiloxane have been "free-blown" with a chemical blowing agent and crosslinked with an organic peroxide. The cellular structure is produced without the use of CFC's thus making less damaging to the environment.

Flammability Characteristics

A336 16lb has a Limiting Oxygen Index (LOI) of 28% (BS2782 Part 1) and comply with the following flammability specifications: FAR 25.853 (a)(1)(iv) and (a)(1)(v) horizontal flammability tests. CAA specification 8 issue 2 (2.2)(c) and (d) horizontal flammability tests.

Property	Unit	Spec Limits	Typical Value	Test Method
Apparent Density (1)	Kg/m ³	250±40	256	BSENISO 845
(1) Density measured on 25mm diameter cord sample. The density of of samples of different sizes will be different from that stated here.				
Hardness (2)	Shore 00	45±5	45	ASTM D2240
Hardness (2)	Shore A	5±2		ASTM D2240
(2) Hardness measured on 10mm thick samples. At less than 10mm the hardness will increase with density. It is not possible to perform a Shore A hardness test on a sponge material. These values are provided as a guideline for comparison to solid material				
Compression Stress 40% Strain (3)	kPa	90±40	90	BSENISO 3386 Part 1,2
(3) Compression set measured on a 25mm thick sample. The compression stress of the material increases with the density as the sample thickness in reduced				
Tensile Strength	N/mm ²	0.75 min	1.2	BSENISO 1798
Elongation at break	%	100 min	200	BSENISO 1798
Compression Set 22hrs @ 70°C	%	15 max	10	BSENISO 1856 Type A
For further information about the physical properties of other sample sizes, please contact the technical department.				

Disclaimer

Please note, failure to select the correct materials or products we supply ("the Products") may result in damage to plant, equipment or property. In some instances, it may cause death or personal injury. We are not designers and do not give advice about design related matters concerning the Products. We can help and assist with the technical specifications for the Products. In specific applications, particularly where critical conditions exist, we will try to assist you within the limitations of the services that we offer. All information supplied by us is intended as technical co-operation outlining the specifications of the different Products which we supply. To the extent permitted in law, no warranty is given in respect of any information supplied by us. The customer must satisfy themselves as to the suitability of the Products for their intended application and use. The correct fitting of Products is the responsibility of the customer. Your statutory rights remain unaffected. Save in respect of death, personal injury or fraud, our entire liability to you, however arising from the supply of Products shall be limited to the £10M indemnity amount provided by our insurers.