

MATERIAL DATA SHEET

SILICONE RUBBER

GENERAL DETAILS

Silicone is a red / orange / clear Silicone Rubber, commonly referred to as silicone. Silicone materials are often used in hot air, steam, chemical and foodstuff applications where it's outstanding chemical and temperature resistance may be needed. Because of it's lower mechanical properties compared to other elastomers, Silicone should not be used for dynamic applications. Silicone is also FDA approved.

PHYSICAL PROPERTIES

PHYSICAL PROPERTIES	STANDARD	UNIT	VALUE
Specific Gravity	DIN 53479	g/cm ³	1.54
Hardness at 20°C	DIN 53505	Shore A	83
Tensile Strength	DIN 53504	N/mm ²	> 7
Elongation at break	DIN 53504	%	>120
Compression set 22h / 175°C	DIN 53456	%	18.5
Min Service Temperature		°C	-55
Max Service Temperature		°C	210

CHEMICAL RESISTANCE

Water up to 70°C	R	KEY TO CHEMICAL RESISTANCE R = RESISTANCE S = SUITABLE U = UNSUITABLE
Water up to 90°C	S	
HFA Fluids	R	
HFB Fluids	R	
HFC Fluids	S	
HFD Fluids	U	
Mineral Oils	S	
Vegetable Oils	S	
Fuels	U	
Ozone	R	
Air up to 100°C	R	
Air up to 150°C	R	
Air up to 200°C	R	

