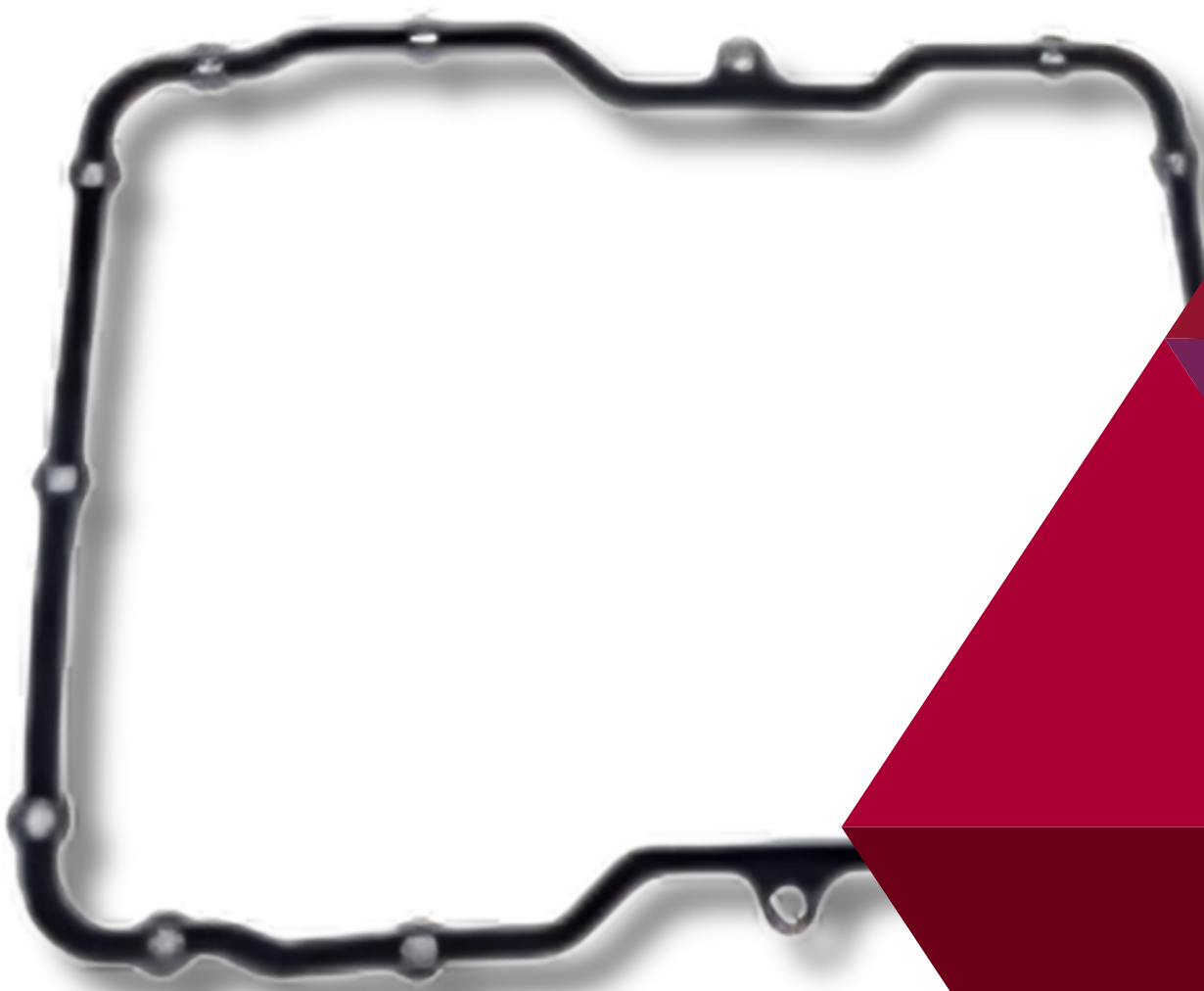# Silicon Foam Rubber Sealing

Silicone Foam Rubber Sealing

The BR series of silicone foam rubber materials feature low density and excellent resistance to permanent compression deformation. Compared with traditional carbon-based foaming materials this material has superior resistance to high and low temperatures (-55 to 200℃), high flame retardancy (V-0). Additionally, it has excellent aging resistance and weather resistance. It is an ideal material for various waterproof sealing, shock absorption, buffering, support, insulation protection and fire prevention applications.

Features

» Excellent flame retardancy and fire resistance
» Outstanding resistance to compression deformation and creep
» Superior heat resistance and cold resistance, capable of continuous operation from -55 ~ 200 °C
» Good insulation and environmentally friendly

Product Properties

» Colour: Grey, Black, White
» Thickness: 0.5 - 30 mm
» Dimensional tolerance: Conform to the allowable tolerance of dimensions in GB/T18944.1 - 2003

Item	Unit	BR550	BR560	BR570	BR580	BR590	BR595	BR600	Test Standards
Density	g/cm^3	0.18 ±0.03	0.20 ± 0.03	0.25 ± 0.03	0.37±0.04	0.42±0.04	0.50±0.04	0.55±0.05	ASTM D 1056
25% compressive deformation stress	KPa	10±5	20 ± 10	30 ± 10	75 ± 20	110 ± 20	145 ± 30	110 ± 20	ASTM D 1056
Compressed permanent deformation (100°C ad 50 % for 22 h)	%	≤ 5.0	≤ 5.0	≤ 5.0	≤ 5.0	≤ 5.0	≤ 5.0	≤ 5.0	ASTM D 1056
Tensile strength	KPa	≥ 150	≥ 150	≥ 200	≥ 300	≥ 400	≥ 400	≥ 700	GB/T 528
Elongation at break	%	≥ 60	≥ 60	≥ 60	≥ 80	≥ 85	≥ 90	≥160	GB/T 528
Water absorption rate	%	≤ 5.0	≤ 5.0	≤ 5.0	≤ 5.0	≤ 5.0	≤ 5.0	≤ 5.0	ASTM D 570
Flame retardant	/	V-0	V-0	V-0	V-0	V-0	V-0	V-0	UL-94
Thermal conductivity	W/(m*K)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	ASTM D 5930
Volume resistivity	(Ω*cm)	≥1.0×10^{14}	≥1.0×10^{14}	≥1.0×10^{14}	≥1.0×10^{14}	≥1.0×10^{14}	≥1.0×10^{14}	≥1.0×10^{14}	GB/T 1695
Environmental protection test	/	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Rohs&REACH