

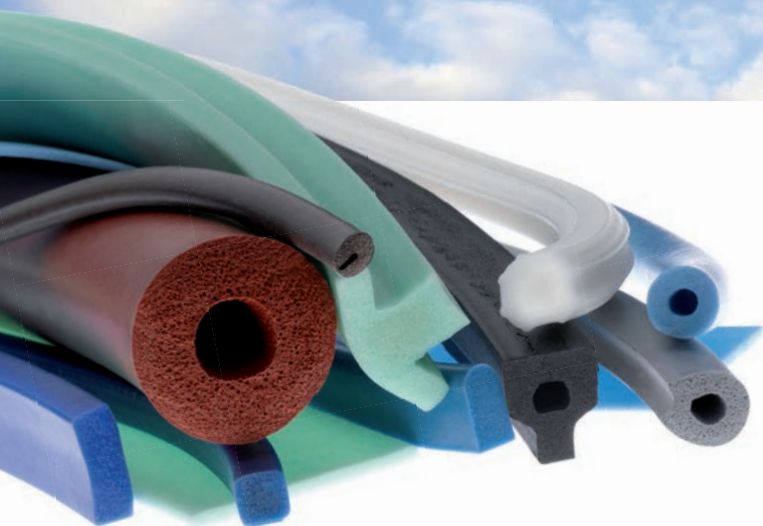


AIRCRAFT AND SPACE TECHNOLOGY

Lightweight and non flammable components made
from solid and foamed silicone rubber



Flexibility, Opportunities, Innovations



biw

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MATERIALS FOR THE AIRCRAFT AND SPACE TECHNOLOGY

Internal compounding allows the adaptation of basic silicone rubber to individual customer requirements by way of additives. Below you will find a list of various materials which have been tested and certified for the aviation industry.



Material		Hardness [Shore A] DIN 53505 DIN EN ISO 868	Density [g/cm ³] DIN 53479 ISO/R 1183	Tensile strength [N/mm ²] DIN 53504 ISO/DIS 37	Ultimate elongation [%] DIN 53504 ISO/DIS 37	Tear resistance [N/mm] ASTM D 624 B	Compression set [%] DIN 53517 (22h/175 °C) DIN ISO 815	Dielectric strength [kV/mm] VDE 0303	Operating temperature [°C]
Silicone	P50-5555xxx	50	1.15	10.5	490	20	40	20	-50/+180
Silicone	P60-6555xxx	60	1.15	10.5	440	20	40	20	-50/+180
Silicone	P70-7555xxx	70	1.19	10.5	320	27	40	20	-50/+180
Silicone	P50-5555746	50	1.15	10.5	480	20	40	20	-50/+180
Silicone	P50-5555735	50	1.15	10.5	480	20	40	20	-50/+180
Silicone	P50-5555918	50	1.15	10.5	480	20	40	20	-50/+180
Silicone	P50-5566716E/M	50	1.15	10.5	490	20	40	20	-50/+180
Silicone	P50-5570716	50	1.15	10.5	490	20	40	20	-50/+180
Silicone	P60-6510910	60	1.16	12	480	21	40	20	-50/+180
Silicone	P60-6552735	60	1.25	10	400	18	40	20	-50/+180
Silicone	P60-6551819	60	1.16	12	480	21	40	20	-50/+180
Silicone	P60-6550735	60	1.16	12	480	21	40	20	-50/+180
Silicone	P60-6910901	60	1.16	12	480	21	40	20	-50/+180
Silicone	P60-6552775	60	1.25	10	400	18	40	20	-50/+180
Silicone	P80-8552724	80	1.30	8	350	18	40	20	-50/+180
Silicone foam	S025-AB8014	5–10	0.25		150		20 (22 h/100 °C)		-40/+180
Silicone foam	S040-AB8014	8–15	0.4		200		20 (22 h/100 °C)		-40/+180
Silicone foam	S050-AB8014	15–20	0.5		200		20 (22 h/100 °C)		-40/+180
Silicone foam	S060-AB8014	20–25	0.6		250		20 (22 h/100 °C)		-40/+180



APPLICATION EXAMPLES

- Aircraft construction
- Sealing technology
- Component production
- Board equipment (interior)
- Galleys

Colour	DAN 1106 conform	JAR/FAR/CS 25.853(a) App. F, Part I(a)(1)(ii) 12s vertical	JAR/FAR/CS 25.853 (a) App. F, Part I(a)(1)(iv) 15s horizontal	JAR/FAR/CS 25.853(d) App. F, Part V(b) Smoke Emission	AITM 2.0002B ABD0031	AITM 2.0003A ABD0031	AITM 2.0007 ABD0031	AITM 3.0005 ABD0031	BfR	FDA
various AIC	■		■			■	■	■		
various AIC			■			■	■	■		
various AIC			■		■	■	■	■		
AIC 1.8			■			■	■	■		
AIC 1.7			■	■				■		
AIC 1.6			■	■				■		
similar to RAL 7016			■			■	■	■	■	■
similar to RAL 7016	■	■	■		■	■	■	■		
similar to RAL 1015			■		■	■	■	■		
AIC 1.7		■			■		■	■		
similar to RAL 8019			■		■	■	■	■		
similar to RAL 7038			■		■	■	■	■		
similar to RAL 9001		■	■		■	■	■	■		
similar to RAL 7039		■			■		■	■		
similar to RAL 7011		■			■		■	■		
brown		■			■					
brown		■			■					
brown		■			■					
brown		■			■					



BIW INNOVATIONS FOR AIRCRAFT AND SPACE TECHNOLOGY

BIW is a company founded in 1971 with more than 300 employees and a turnover of more than 55 million Euros. As leading supplier of silicone rubber and textile fibre products, BIW provides a series of tested materials on a silicone and and silicone foam rubber basis for the application in the aeronautical engineering sector. The technology focuses on **low-weight foamed and non-flammable, self extinguishing material qualities**. Customer requests with respect to colour, hardness and mechanical properties can be implemented by way of in-house material compounding and process development across a broad spectrum. Compact silicone material and silicone foam with minimal density are regularly available as well as silicone mouldings. Protection and insulation sleeveings in combination with silicone and glass fibre are also part of the production program of BIW. The large production sector offers the option of supplying complete assembly groups. An integrated management system according to **ISO/TS16949, ISO9001, ISO13485, ISO14001, ISO50001** and **IIP (Investors in People)** is implemented at the location.

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