

BIW Isolierstoffe GmbH

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Certified management system by:

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001
- IIP (Investors in People)



TECHNICAL DATASHEET

INDUSTRIES AND APPLICATIONS



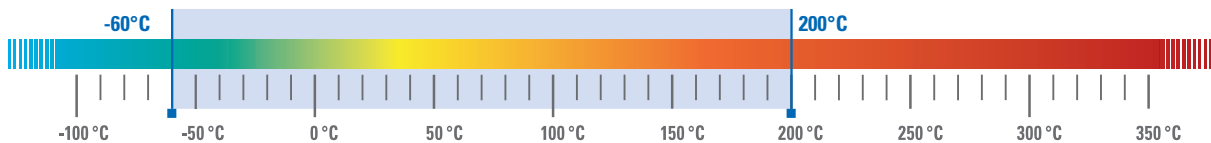
Silicone metallic and fluorescent colours

Key properties

- Many colours with metallic effect
- Individual colour adjustment possible
- Fluorescent colours in yellow/green tint
- Peroxid od Platinum vulcanised
- Temperature range -60 °C - 200 °C
- Mechanical properties are nearly constant over the entire temperature range
- Resistant to UV and ozone (resistant to radiation and non-aging)
- Resistant to many chemicals
- Very good fire resistance
- No toxic combustion gases
- Free of plasticiser
- For many colours our silicone product conforms with recommendation XV BfR and CFR 21 FDA §177.2600. Please get directly in touch with us.



Application temperature



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**When it comes
to competence**

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Silicone metallic and fluorescent colours

Silicone VMQ A30 - A80**Material Qualities**

Property	Standard	A30	A40	A50	A60	A70	A80
Hardness [Shore A]	DIN 53505 DIN EN ISO 868	30±5	40±5	50±5	60±5	70±5	80±5
Density [g/cm ³]	DIN 53479 ISO/R 1183	1.11	1.13	1.14	1.15	1.18	1.18
Tensile Strength [MPa]	DIN 53504 ISO/DIS 37	10	10.3	9.7	10.1	9.4	8.1
Elongation @ Break [%]	DIN 53504 ISO/DIS 37	950	850	840	710	600	290
Tear Strength [N/mm]	ASTM D624B	25	24	35	35	39	18
Compression Set [%]	DIN ISO 815 (22h/175°C)	25	24	25	25	25	40
Dielectric Strength [KV/mm]	VDE 0303	20	20	20	20	20	20
Operation Temperature [°C]		-60 / +200	-60 / +200	-60 / +200	-60 / +180	-40 / +180	-40 / +180

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**Silicone metallic and fluorescent colours****Silicone VMQ P10 - P90****Material Qualities**

Property	Standard	P10	P20	P30	P40	P50	P60	P70	P80	P90
Hardness [Shore A]	DIN 53505-bDIN 53505 DIN EN ISO 868	10 +10/-0	20 +8/-3	30 +8/-3	40±5	50±5	60±5	70±5	80±5	90 +0/-10
Density [g/cm³]	DIN 53479 ISO/R 1183	1.07	1.11	1.11	1.12	1.15	1.17	1.18	1.19	1.20
Tensile Strength [MPa]	DIN 53504 ISO/DIS 370/DIS 37	6.3	8.6	9.0	9.5	10.5	10.4	10.7	10.1	8.3
Elongation @ Break [%]	DIN 53504 ISO/DIS 37	1200	920	700	550	480	390	400	400	300
Tear Strength [N/mm]	ASTM D624B	17.5	18	16.5	16	20	20	22	25	19
Compression Set [%]	DIN ISO 815 (22h/175°C)	40	35	45	45	50	50	40	50	55
Dielectric Strength [KV/mm]	VDE 0303	20	20	20	20	20	20	20	20	20
Colour		translucent or coloured	translucent or coloured	translucent or coloured	translucent or coloured	translucent or coloured	translucent or coloured	translucent or coloured	translucent or coloured	translucent or coloured
Operation Temperature [°C]		-60 / +200	-60 / +200	-60 / +200	-60 / +200	-60 / +200	-60 / +200	-60 / +200	-40 / +180	-40 / +180