

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001

INDUSTRIES AND APPLICATIONS



HighQSil® LFO „Low Fogging“-Silicone

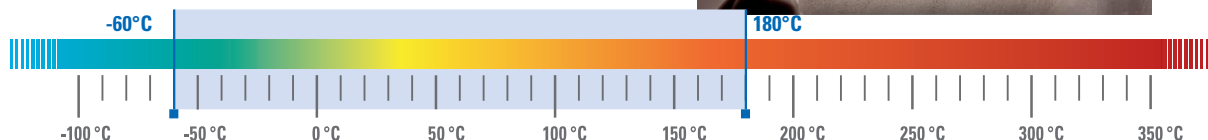
BIW provides a clear view

Key properties

- Silicone with very low fogging behaviour according to DIN 75201 A/B
- fogging performance tested on silicone test sheets (2 mm thickness)



Application temperature



Product description

The newly developed BIW Silicone series HighQSil® LFO reduces streaking on glass surfaces. The insulating material thus reduces an aesthetic annoyance and can also provide greater safety on the road. When non-volatile components made of silicone de-gas and meet cooler surfaces, this can result in unwanted fogging. This is referred to as the "fogging effect," a streaking that shows up as a whitish coating on the glass surface. The phenomenon occurs, for example, with window facades of buildings, windscreens or aeroplane windows. Streaking is not just an aesthetic problem; it constitutes a considerable safety risk if visibility is impaired, for example while traveling in a car. Therefore, it makes sense to use low-gassing insulating materials that prevent fogging, not just in building construction, but also in automobile and aeroplane design. BIW has now developed the HighQSil® LFO material series, which sharply reduces the fogging effect. The silicone materials, according to EDAG testing in conformity with DIN 75201, have a gravimetric fogging value of < 0.1 mg per 10 g of material and a reflectivity of > 98.5%. There is little or no streaking. The low-gassing silicone is available in the hardness range from Shore A 50 to 80.

Tests / References



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Material Qualities

Property	Standard	50	60	70	80
Hardness [Shore A]	DIN 53505 DIN EN ISO 868	50±5	60±5	70±5	80±5
Density [g/cm³]	DIN 53479 ISO/R 1183	1.15	1.17	1.20	1.23
Tensile Strength [MPa]	DIN 53504 ISO/DIS 37	9.0	9.1	9.2	9.0
Elongation @ Break [%]	DIN 53504 ISO/DIS 37	495	450	430	390
Tear Strength [N/mm]	ASTM D624B	25	26	27	26
Operation Temperature [°C]		-60 / +180	-60 / +180	-60 / +180	-60 / +180
Colour		transparent or coloured	transparent or coloured	transparent or coloured	transparent or coloured
Fogging [%]	DIN 75201 A	>99	>99	>98.5	>98.5
Fogging [mg/10g]	DIN 75201 B	<0.1	<0.1	<0.1	<0.1