Silicone Spouts – Technical Data

SILICONE

Description

The silicone spout on the Series POP, used a two-components liquid silicone rubber produced by BAYER AG.

Key Features and Benefits

- *Excellent thermal stability*
- *Biocompatible*
- *Sterilizable with ethylene oxide, steam and gamma radiation*
- *High stability and flexibility at low temperatures*
- *Good rubber-like properties, high tear resistance*
- *Long service life at dynamic stress*
- *High stability to ozone and ultraviolet light*
- *Outstanding resistance to aging*
- *Excellent dielectric behaviour over a wide range of temperatures*
- *Easily pigmentable with LSR colour pastes*
- *KTW approved*

Typical Physical Properties

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Typical Properties of the Rubber:			
		A-part	B-part
Appearance		Translucent	Translucent
Viscosity in Pa•s gamma= 10 s^{-1} at 20°C	DIN 53018	450	450
The pot-life of the mixture of the two components (closed vessel) at 20°C is usually three days. Increased temperatures reduce the pot-life.			
Typical Properties of the Vulcanizate: Mixing Ratio of Components A : B = 1 : 1. Vulcanization: 10 min. 175°C + 4 hrs 200°C post-cure			
Density	DIN 53 479 A	g/cm^3	1.12
Shore A Hardness	DIN 53 505		52
Tensile Strength	DIN 53 504 S2	N/mm^2	10.0
Elongation at Break	DIN 53 504 S2	%	550
Compression Set	DIN 53 517 (22 h at 175°C)	%	25

Typical data are average data and actual values may vary.

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Potential Applications

Sealing elements, O-rings, Stoppers, Diaphragms , Keypads, Bellows, Pacifiers, Baby teats, Respiratory devices, Vibration dampers, Air vent flaps, Switch cover, Breast shields, Nose pads, Pressure cookers parts, Spark plug boots, Cable connectors, Catheters, Parts of medical technical equipment

Regulatory Compliance

- *KTW approved*
- *In compliance with the requirements of the DVGW Working sheet W 270*
- *WRAS approved product (BS 6920)*

PIGMENTS

Description

A substance used to change the color of the neutral silicon.
The colors used are:
Verde Mela - Blu Luna - Bianco Latte - Viola Mirtillo - Arancio Albicocca - Nero Fumo

Regulatory Compliance

- *D.M.6 April 2004 Num. 174*
- *In compliance with the requirements of KTW*
- *In compliance with the requirements of WRAS*
- *In compliance with the requirements of ACS*

XENOTEST

*Accelerated aging tests "Xenotest" , were conducted according to the standard "**outdoor exposure**", please find here-below the parameters:*

- *Radiation intensity 0,45 j/m2*
- *Room temperature 35° C*
- *Cycle of exposure 112 minutes of irradiation + 8 minutes of rain*
- *Duration of test: 720 hours*
- *One hour of irradiation accelerated xenon, corresponds to 10 hours of direct exposure to the sun of Florida.*

Test Result

All the colors have passed the test.