



DATA SHEET



CELLO® SILICONE

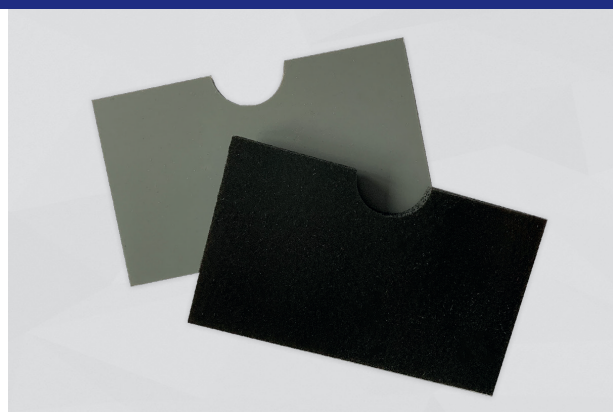
Cello® SILICONE is a sealing material with very good heat and chemical stability.

The high-temperature resistant silicone foam scores with a long service life and very good resistance to adverse weather conditions and UV radiation.

Cello® SILICONE is available in 2 variants:

- » SILICONE SOFT ▶ color: black
- » SILICONE MEDIUM ▶ color: grey

Applications: Construction and farm machinery, machine construction, medical technology, rail vehicles



TECHNICAL DATA

	SILICONE SOFT	SILICONE MEDIUM
FLAMMABILITY	<ul style="list-style-type: none"> ▶ FMVSS 302, DIN 75 200, fulfilled ▶ ISO 3795, burning rate < 100 mm/min ▶ EN 45545-2: 2013 + A1: 2015 requirement R22, HL 3 fulfilled (25 mm, NK)* requirement R10, HL 3 fulfilled (3-9 mm, NK) ▶ UL 94, V-0 	<ul style="list-style-type: none"> ▶ FMVSS 302, DIN 75 200, fulfilled ▶ ISO 3795, burning rate < 100 mm/min ▶ EN 45545-2: 2013 + A1: 2015 requirement R22, HL 3 fulfilled (25 mm, NK)* requirement R10, HL 3 fulfilled (3-9 mm, NK) ▶ UL 94, V-0
TEMPERATURE RESISTANCE	-55°C to +200°C	-55°C to +200°C
THERMAL CONDUCTIVITY	≤ 0.060 W/(m·K) at 10°C (EN 12667)	≤ 0.080 W/(m·K) at 10°C (EN 12667)
DENSITY	200 ± 30 kg/m ³ (ASTM D 1056)	370 ± 30 kg/m ³ (ASTM D 1056)
TENSILE STRENGTH	≥ 300 kPa (ASTM D412-16)	≥ 300 kPa (GB/T 528-2009)
COMPRESSION HARDNESS	25%: 20 ± 5 kPa (ASTM D 1056)	25%: 65 ± 10 kPa (ASTM D 1056)
ELONGATION AT BREAK	≥ 90% (ASTM D412-16)	≥ 80% (GB/T 528-2009)
WATER ABSORPTION	≤ 5% (Q/ZLZ031-2016)	≤ 5% (Q/ZLZ031-2016, internal test)
COMPRESSION SET	≤ 5,0 % at 100°C (ASTM D 1056)	≤ 5,0 % at 100°C (ASTM D 1056)
SHORE HARDNESS 00	30	56



* Further tests can be commissioned if the turnover is adequate.

DIMENSIONS

PRODUCT	THICKNESS [mm]	ROLLS*	SHEETS*	WIDTH TOLERANCES READY-MADE PIECES
SILICONE SOFT	3, 10 ± 10%	Length: 10 m / width: 950 mm	1200 x 900 mm	up to 250 mm +/-3 mm
SILICONE MEDIUM	2, 6 ± 10%	For 10 mm SOFT: Length: 5 m / width: 480 mm	For 10 mm SOFT: 1200 x 480 mm	250 up to 1000 mm +/-5 mm 1000 up to 2000 mm -5/+10 mm

Other thicknesses / dimensions on request. Ready-to-use parts according to your specifications or drawing.

*Untrimmed: Effective dimensions guaranteed as ordered, may be exceeded by some layers (foam, film, non-woven etc.).

MORE INFORMATION

BENEFITS	<ul style="list-style-type: none"> ▶ Excellent sealing effect ▶ High temperature resistance ▶ High ozone and weather resistance ▶ Good resistance against chemicals ▶ AdBlue-resistant
OPTIONS	<ul style="list-style-type: none"> ▶ SILICONE NK: no self-adhesive equipment ▶ SILICONE SK: with self-adhesive finish (only sheets and ready-made pieces)
ADVICE	<ul style="list-style-type: none"> ▶ Materials with self-adhesive layers offer a temperature resistance of max. 100°C in the bond line. ▶ Under thermal load, the material may shrink by up to 5%.