

SEALANTS FOR MANUFACTURING THERMO-INSULATING GLASS

High-quality elastic one-component silicone sealant for the production of thermal insulating glass.

PROPERTIES

- Excellent adhesion to clean surfaces such as glass, aluminium, stainless steel and hybrid spacers
- UV resistant
- Suitable for robotic application
- Sealant does not flow when applied vertically
- Compatible with TKK materials used for production of thermal insulating glass
- Contains no solvents
- Color: Black

TESTS AND CERTIFICATES

IFT certificate according to the standard EN 1279: 2018

- part 4 (requirements of the standard 1279-4:2018-07 chapter: 5.3, 5.5.2 in 5.5.3)

USE

- Secondary sealant for sealing thermal insulating glass
- Particularly suitable where UV resistance is required
- Always use in combination with primary sealant TKK GE BUTMELT

TECHNICAL DATA

Unhardened sealant

Base:	Silicone polymer
Appearance:	black paste
Curing mechanism:	curing with air moisture
Specific gravity:	1330 ± 10 kg/m ³
Viscosity:	280-300 Pas [T=20°C]
Tack free time :	≈10min [depending on the temperature and moisture]
Curing time :	3-4 mm/day [depending on the temperature and moisture]
Application temperature:	from +15 °C to +30 °C

Hardened sealant

Shore A hardness [28 days]:	35-40 Sh°A
Tensile strength [EN 1279-4:2018]:	≈0,8 MPa
Volatile compound [EN 1279-6:2018]	<1%
Temperature resistance:	from -40 °C to +180 °C

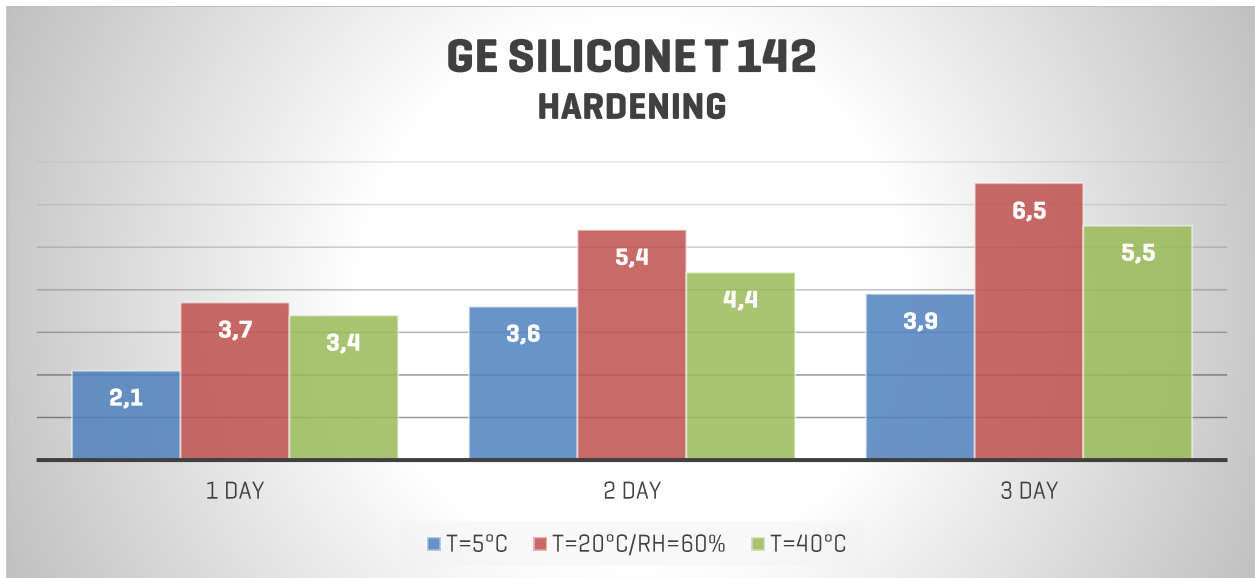
Values may vary depending on temperature, humidity and type of bonded substrate.

APPLICATION

To achieve good adhesion, the glass and spacers must be clean, dry, grease-free and dust-free. For cleaning use TKK ACTIVE CLEANER.

TKK GE SILICONE T 142 can be applied with hand gun, pneumatic gun or different industrial dispensing machines. Processing time of TKK GE SILICONE T 142 depends on the environment temperature and air humidity. For toll

cleaning use GLASS EXPERT CLEANER 5. The possibility of transporting the manufactured thermal insulating glass after application of the secondary sealant TKK GE SILICONE T 142 depends on the thickness of the applied sealant, the ambient temperature and relative air humidity in which manufactured thermal insulating glass is stored. See the graph of hardening as a function of temperature.



PACKAGING

- 270 kg or 250 kg drum
- 25 kg hobbock
- 600 ml sausage
- Other packaging are possible by agreement

STORAGE

12 month in a dry and cold place at a temperature between 15°C and 25°C, in originally closed packaging.

HEALTH, SAFETY HANDLING AND DISPOSAL INFORMATION

Additional information on safety, safe handling instructions and personal protective equipment as well as disposal information are available in a safety data sheet. Safety data sheet is available upon request. You can also ask your TKK distributor for a copy.

WARNING

Instructions contained in this document are based on our research and experience, however, due to specific conditions and working methods we recommend that you perform preliminary tests prior to any application of our products.

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