TermoPasty®

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Technical Card

SILICONE FILLING COMPOUND 031

Two-component (soft gel)

Two-component silicone filling compound, cross-linking in the adduct system. The filling compound perfectly protects electronics from environmental stress and protects sensitive modules from vibration. Silicone gel is crystal clear, resistant to UV light and therefore it is the perfect material for LED applications. After hardening, it is very soft. It creates excellent electrical insulation. It has a wide temperatures range, from -50°C to 180°C.

TECHNICAL DATA

PARAMETERS	A	B
appearance	low viscous liquid	low viscous liquid
colour	transparent	transparent
specific weight in 25°C	0.98 g/cm³	approx. 0.98 g/cm³
viscosity in 25°C	approx. 6000 mPa s	approx. 6000 mPa s
Properties of the mixture after mixing ingredients 3 ÷ 2		
viscosity in 25°C	approx. 6000 mPa s	
shelf life at 25°C	approx. 70 minutes	
gelling time in 25°C	max. 24 hrs	

APPLICATION

Encapsulation of electronic/electrical systems. Energy converters. Power semiconductors. Power supplies. Automotive electronics. Motion control. Telecommunication. Perfect material for LED applications.

Preparation of the composition:

Mix two ingredients in specified proportions (3:2) mechanically or manually. It is recommended to place the prepared filling mass in the vacuum chamber (30-60 mm Hg) to remove air from the elastomeric mass. During this procedure, which should last approx. 5 minutes, firstly, the material foams, increases its original volume by approx. 5 times, and then return to the previous volume. Wait then wait for another 2 minutes, and remove the material from the chamber.

Thus prepared composition is poured in the element, and allowed to gel. After complete cross-linking, the mass becomes non-pouring, it is on a form of transparent gel.

It is also possible to made a protection with a composition that has not been subjected to venting in the vacuum chamber. In this case, the end result depends inter alia on the type and diligence of a making person.

Storage:

Store in original sealed containers at temperatures from +5 to 25°C.

Safety

The product does not show any threats. It does not subject to ADR/RID regulations.

Manufacturer information

The information contained in this leaflet is given in good faith, and is based on our current knowledge. However, firstly the information should be checked in tests before using to make sure that the product is appropriate for a given application. The use of the product is beyond our control, and therefore the user is solely responsible for the proper use. We are not responsible for improper or incorrect use of the product.