



Polytec TC 301

Polytec TC 301 is a 100% solid, single component, thermally conductive epoxy.

Typical Properties

Number of components	1
Shelf life at 6 – 8°C	6 Months
Pot Life at room temperature	1 Month
Viscosity (84 s ⁻¹ @ 23°C)	43000 mPa s
Consistency	Creamy paste
Specific Gravity	2,00 g/cm ³
Filler	Al
Max. Particle Size	<30 µm
Color	Metal grey

Polytec TC 301 is a standard single component, thermally conductive epoxy with excellent thermal conductivity. It was designed for all applications where heat transfer is essential (heat-sinking, aluminum or ceramic packaging etc.). Polytec TC 301 has a conveniently long pot- and shelf life. It is ideal for all dispensing and screen printing applications. Polytec TC 301 has an excellent adhesion on metals, ceramic, glass and most plastics.

Features:

- Al-filled
- Excellent thermal conductivity
- Single component
- 100% solid
- Easy to use

Minimum Bond Line Cure Schedule

120°C	45 Minutes
150°C	10 Minutes

Processing:

- Dispensing
- Screen printing
- Stencil printing

Thermal Properties

Continuous Operating Temperature	-55°C / 180°C
Intermittent Operating Temperature	-55°C / 280°C
Degradation Temperature	380°C
Thermal Conductivity	1.9 ±0.2 W/mK

Available Pack Sizes:

- See price list
- Customized Packaging

Electrical Properties

Volume Resistivity	10 ⁸ ohm-cm
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For more information, see:

- MSDS of Polytec TC 301
- Application notes
- Catalogue

Mechanical Properties

Shore- Hardness	D85
Die Shear Strength	≥60 N/mm ²

Please note:

The above listed information are typical data based on tests and are believed to be accurate. Polytec PT makes no warranties (expressed or implied) as to their accuracy. The above listed data do not constitute specifications. The processing (in particular the cure conditions) of the material, the process control and the variety of different applications at various customers are not under Polytec PT's control. Therefore Polytec PT will not be liable for concrete results in any specific application or in any connection with the use of this product.

In particular the cure conditions do have a major effect on the properties of the cured material. Therefore it is highly recommended to keep the cure schedule – once established - under tight control. With the release of this data sheet all former data sheets will be null and void.

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