Polytec PT
Polymere Technologien

Data Sheet **Version 2/2015**

Polytec TC 351

Polytec TC 351 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)	60000 mPa s
Consistency	Thixotropic paste
Specific Gravity	1.90 g/cm^3
Filler	Al_2O_3
Max. Particle Size	≤45 µm
Color	Black
Minimum Bond Line Cure Schedule	
120°C	45 Minutes
150°C	10 Minutes
Thermal Properties	
Glass Transition Temperature (Tg)	110°C
Continuous Operating Temperature	-55°C / 200°C
Intermittent Operating Temperature	-55°C / 300°C
Degradation Temperature	380°C
Thermal Conductivity	0.8 ±0.1 W/mK
Mechanical Properties	
Shore- Hardness	D80
Die Shear Strength	≥60 N/mm^2
Electrical Properties	
Dielectric Strength	>30kV/mm

Polytec TC 351 is a single component, thermally conductive epoxy with good thermal conductivity.
It was designed for all applications where electrically insulating and thermally conductive bonds are desirable.
Polytec TC 351 has a conveniently long pot- and shelf life.
Typical applications are bonding of sensors in metal holders and fixation of single devices on PCBs.
Due to the long pot- and shelf life it is ideal for high volume dispensing techniques.

Features:

- Heavy flowable paste
- Single component
- Thermally conductive
- 100% solid / solventless
- Excellent resistance to moisture and chemicals

Processing:

- Dispensing
- Screen printing
- Stencil printing

Available Pack Sizes:

- See price list
- Customized Packaging

For more information, see:

- MSDS of Polytec TC 351
- Application notes
- Catalogue

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.

Polytec PT GmbH
Polymere Technologien • Polytec-Platz 1-7 • 76337 Waldbronn • Germany
Tel. ++49(0) 7243 604-4000 • FAX ++49 (0) 7243 604-4200 • Email: info@polytec-pt.de • http://www.polytec-pt.de