

T-740 Technical Data Sheet

Product Description:

T-740 is a single part, medium temperature rapid curable modified epoxy resin, excellent adhesion between different types of materials. The product has excellent working performance, good high temperature resistance, low curing shrinkage, blister resistance, boiling resistance and excellent sealing performance.

Typical Applications

This product is suitable for medium temperature curing process, mainly used for potting, sealing and bonding of components.

Typical Properties of Uncured Material

Item [↕]	Typical Value [↕]
Chemical type [↕]	Modified epoxy resin [↕]
Appearance [↕]	Black viscous liquid [↕]
Specific Gravity (g/cm ³) @25°C , [↕]	1.17 [↕]
Casson viscosity @25°C , mPas [↕]	8000-14000 [↕]
Cured loss@150°C , wt% , TGA [↕]	<0.6% [↕]
Pot life@25°C , Hour [↕]	24 [↕]
Shelf life@-20°C , Month [↕]	6 [↕]

Recommended Curing Conditions

Cured for 45 minutes @150°C

Typical Properties of Cured Material

Item [↕]	Typical Value [↕]
Shear Strength(MPa) [↕]	1-2 [↕]
Cured volume shrinkage(%) [↕]	0.2 [↕]
Cured linear shrinkage(%) [↕]	0.1 [↕]
Hardness (Shore D) [↕]	≤50 [↕]
Coefficient of Thermal Expansion [↕]	↕
α1 ppm/°C(Tg 以下) [↕]	24 [↕]
α2 ppm/°C(Tg 以上) [↕]	185 [↕]
Glass Transition Temperature(°C) [↕]	160 [↕]
Water absorption(wt%) [↕]	0.2 [↕]

Soak in DI water at room temperature for 24 hours[↕]

Shear Strength , MPa , [↕]	8 [↕]
Tensile Modulus , MPa , [↕]	47.2 [↕]
Volume Resistivity, ohms-cm [↕]	9.2 × 10 ¹⁵
Surface resistivity , Ω , [↕]	2.1 × 10 ¹⁵
Dielectric constant / dielectric loss [↕]	↕
1kHz [↕]	5.46/0.039 [↕]
1MHz [↕]	4.42/0.055 [↕]

Storage

The ideal storage condition is to seal and refrigerate the unopened product in a dry place below - 20 °C.

To avoid polluting the original adhesive, Not return any used adhesive to the original package.

Notice

Use at room temperature to prevent high temperature

To avoid opening the product immediately after taking it out of the warehouse. It should be placed at room temperature for at least 2-3 hours before opening it

For more information, consult your local technical service

For the safety precautions of this product, please refer to the material safety data sheet (MSDS).

Maintain ventilation in the workplace

Data Scope

The data contained in TDS are typical values and ranges, and are real and reliable experimental results based on the test of production samples. In actual use, please refer to the COA of the current batch of products.

Disclaimer

The data in TDS are for reference only and believed to be true and reliable. We are not responsible for the results obtained by using methods beyond our control. It is the user's responsibility to decide which production method to use the product and what measures to take to prevent possible loss and personal injury during storage and use.