

Hot melt Molding

(Polyamide, Reactive Polyurethane)

Hot melt molding is a **low-temperature (100~240°C)** **low-pressure (0.2~240°C)** molding method using the thermoplastic hot melt adhesive.

<Characteristics>

- Excellent adhesion
- Electric insulation
- Highly flame retardant
- UV and ageing resistant
- Heat resistant (-40 ~ 130°C)
- Resistant to petrol, oils, acids or alkaline substances

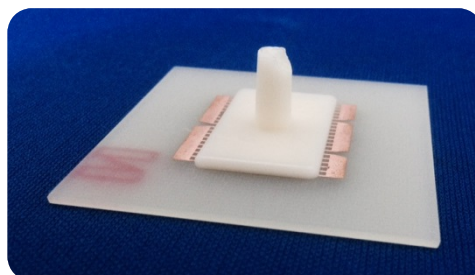


<Benefit for Customer>

- Low pressures protect sensitive components
- Short process times and high productivity
- All rounder injection molding machines can be used for hot melt processing

<Application>

Harness parts, Control boards, Sensors, Connectors



High thermal conductivity resin compound

(Two components Urethane & one component Epoxy resin compound)

<Characteristics>

Low coefficient of linear expansion **$3.8\text{W/m}\cdot\text{K}$, 16ppm**

Product name: **GRS-671 (One component epoxy)**

Excellent Heat resistance **$1.2\text{W/m}\cdot\text{K}$, 150°C**

Product name: **GRS-2000 (Two components urethane)**

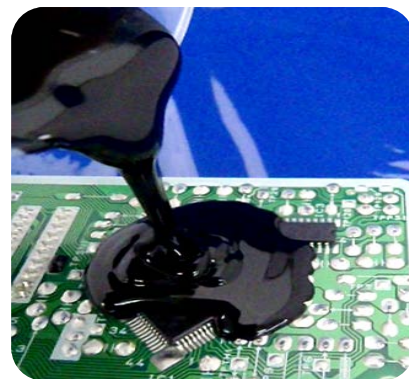
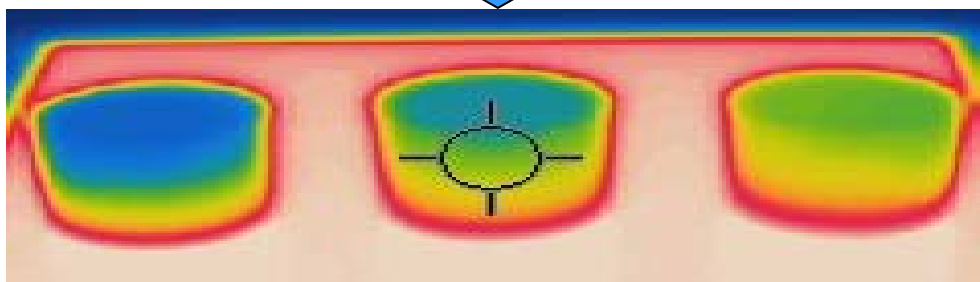
Flexibility and flame retardant **$0.7\text{W/m}\cdot\text{K}$, V-0**

Product name: **UF-1113 (Two components urethane)**

<Heat radiation performance>



After 10 minutes



Two components epoxy potting resin compound for automotive electric parts

<Characteristics>

Low viscosity and Low CTE $6\text{Pa}\cdot\text{s}$, CTE:34ppm

Product name :**EC-295/H-397**

High thermal shock resistance and Low CTE CTE:24ppm

Product name :**EC-260/H-560**

High heat resistance and Low CTE $T_g176^\circ\text{C}$, CTE:16ppm

Product name :**EX-565/H-565**

<Application>

Ignition-coil



Inverter module



One component epoxy potting resin compound for automotive electric parts

<Characteristics>

Excellent heat resistance epoxy resin **Tg 210°C**

Product name: **GRS-835**

Low temperature cure **1hour at 60°C**

Product name: **GRS-819TI**

Flame retardant epoxy resin **UL94 V-0 (3mm)**

Product name: **GRS-650**

Low modulus epoxy resin **17MPa (23°C)**

Product name: **GRS-818**



<Heat resistance>

