



KGK Chemical Corp.

#1 Coating Technology in The World Molecule Gradient Layer (MGL)TM Technology

Heat storage and thermal uniforming gel sheet

FREY-R

Features

FREY-R is sticky sheet containing heat storage material.

By the effect of heat storage materials, heat from the thermal source is accumulated to gel sheet and prevent to become overheated.

They dissolve thermal problems.

1. They have heat storage property.
2. Excellent flexibility

Uses

- For thermal countermeasure of mobile products including cellular phone
- For thermal countermeasure of automotive parts

Properties

| Product number | Thickness | Adhesive force Adherend/SUS JIS Z0237 | Thermal conductivity | Amount of Heat storage | Phase transition temperature | Specific gravity |
|----------------|-----------|---|----------------------|------------------------|------------------------------|------------------|
| | mm | N/25mm | W/m·K | J/g | (°C) | |
| FREY-R 5 | 0.05 | 1 | 6 | 18.3 | 70 | 0.96 |
| FREY-R 10 | 0.10 | 3 | 3 | | | |
| FREY-R 50 | 0.50 | 10 | 0.7 | | | |

Precautions for Use

User is responsible for determining whether the KGK product is fit for a particular purpose and suitable for user's method of application. Please remember that many factors can affect the use and performance of a KGK product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a KGK product. Given the variety of factors that can affect the use and performance of a KGK product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the KGK product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

KGK make no warranties on above data.

Precautions for Storage

Please store tapes in a box and cool, dark place, avoiding direct sunlight.

Particularly don't expose to high temperature and humidity.

Over 30°C temperature and 50% or more humidity is strictly prohibited.

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