

SilGrip™ TSR1512 Adhesive

Product Description

TSR1512 is a methyl silicone pressure sensitive adhesive. Because it's addition cure, the product cures at lower temperatures (120°C) in a shorter period of time as compared with peroxide cure types (165°C) and makes it possible to coat materials having limited heat resistance and shorten process time.

Key Features and Typical Benefits

- Cures at low temperature in a short time
- Adhesion to a wide variety of surfaces including low energy surfaces like silicone elastomer.

Typical Applications

- Adhesive tapes
- For firm fixing of components

Typical Physical Properties

Properties	TSR1512	CR50
Appearance	Light yellow, translucent	Colorless, transparent
Viscosity (25°C) Pa·s {P}	75 {750}	-
Solids content %	60	-
Specific gravity (25°C)	0.98	-
Solvent	Toluene, Xylene	Toluene
Mixing ratio (weight parts)	100:1	
ADHESIVE PROPERTIES*1 (Cure condition: 2 minutes @ 120°C)		
Adhesive strength ²	N/25mm {kgf/25mm}	8.8 {0.90}
Ball tack ³	(ball number)	32
Holding power ⁴	h	>600

Typical properties are average data and are not to be used as or to develop specifications.

- ¹ Test condition: compliant with JIS Z 0237
 Substrate: 50µm polyimide film (Kapton)
 Coated adhesive: 40g (dry)/m² (40µm thickness)
- ² Peel angle: 180 degree
- ³ Inclination angle: 30 degree
- ⁴ Value: time required for the joint to separate
 Temperature: 200°C
 Weight: 1kg

Instructions for Use

1. Weigh out TSR1512 in a clean container and dilute it to the desired level with a solvent such as toluene.
2. Add 1 weight part of CR50 curing agent and mix thoroughly.
3. Deaerate the mixture under vacuum to remove air entrapped during mixing.
4. Apply to the substrate and cure for 2 minutes at 120 °C

Note:

- Materials such as water, sulfur, nitrogen compounds, organic metallic salts, phosphorus compounds, etc. contained in the surface of the substrate can inhibit curing. A preliminary test should always be conducted before proceeding to determine compatibility.
- In case the amount of coating is less than 50g/m² (dry), pre-heating is unnecessary and in case that the amount of coating is more than 100g/m² (dry), pre-heating may be necessary.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

ADDITIONAL HANDLING, SAFETY, AND STORAGE

- Wear eye protection and protective gloves, as required, while handling the product.
- Adequate ventilation must be maintained in the work place at all times.
- Avoid any source of ignition due to flammability.
- CR50 generates flammable gas on contact with acids or bases.
- Store in a cool and dry place, out of direct sunlight.
- Keep out of the reach of children.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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