

For the Openings and Junctions, etc. of Protective Casing for Parts.

Not containing phthalate ester which has been listed in the RoHS Directive (EU)2015/863

Sealants for Optical Parts

In order to increase the long term reliability of mechanical protection, moisture prevention, etc., optical parts are housed in a protective case made by metal or plastic. Through the special features of these sealants used for the openings and junctions of protective cases, the reliability, especially moisture prevention reliability is greatly expanded.

We introduce here sealants that were developed for the purpose of preventing moisture in optical parts. If you have been unsatisfied with conventional products, please test out these materials.



Possible Usage Examples

- Moisture prevention sealant
 for protective casing for optical parts
 for electronic component parts and general electric parts, etc.
- Moisture resistant adhesives
 for assembly of all types of devices

Low Moisture Permeability

The low moisture permeability type sealant has a low moisture permeability coefficient and shuts out moisture (humidity).

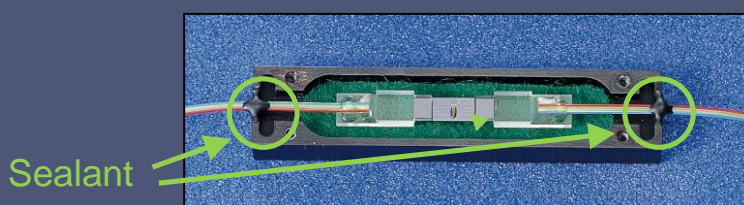
Flexibility

The high flexibility type sealant gives very little internal stress which causes transmission loss in optical fiber.

Long Pot Life

The improvement in workability in our lineup delivers a long pot life.

Structural Images



■ Specifications Low Moisture Permeability Type

| Item | Conditions | Units | OS5958 | OS5962 |
|----------------------------|---------------------|------------------------------------|----------------------------------|--------------------------|
| Curing Conditions | - | - | Room temperature 24 h or 80°C1h | |
| Pot Life | r.t. | h | 2 | 2 |
| Moisture Permeability | 85°C85% | cc•cm/cm ² •sec•cmHg | 1.6 × 10 ⁻⁸ | 0.7 × 10 ⁻⁸ |
| Hardness | 25°C | Shore D | 47 | 66 |
| Tg* | tanδ _{max} | °C | 45 | 49 |
| CTE | 25 - 100°C | ppm/°C | 190 | 100 |
| Weight loss | 100°C100h | wt% | 0.7 | - |
| Shear Bond Strength to SUS | Initial period | | 131 | 146 |
| | After 121°C100% | 10h | 142 | 204 |
| | | 20h | 68 | 207 |
| Pre-curing State | Solution A | - | White paste | |
| | Solution B | | Transparent fluid (light yellow) | |
| Primary Ingredient | Solution A | - | Epoxy | Epoxy |
| | Solution B | | Amine | Amine |
| Mixing Ratio | Weight A : B | - | 10 : 3 | 21 : 3 |
| Special Features | | | Low Viscosity | High Moisture Resistance |

■ Specifications High Flexibility Type

| Item | Conditions | Units | OS5980 | OS-48 |
|------------------------------------|---------------------|------------------------------------|---------------------------------|-----------------------------------|
| Curing Conditions | - | - | 80°C1h | r.t. 24 h or 100°C1h |
| Pot Life | r.t. | h | 2 | 3 |
| Moisture Permeability | 85°C85% | cc•cm/cm ² •sec•cmHg | 3 × 10 ⁻⁷ | 1 × 10 ⁻⁸ (75°C90%) |
| Hardness | 25°C | Shore D | 20 | 66 (Shore A) |
| Tg* | tanδ _{max} | °C | -55 | -46 |
| CTE | 25 - 100°C | ppm/°C | 145 | 200 |
| Weight loss | 100°C100h | wt% | 2.0 | 0.4 |
| Shear Bond Strength to SUS | Initial period | | 24 | 11 |
| | After 121°C100% | 10h | 44 | - |
| | | 20h | 50 | - |
| Pre-curing State (Paste's Color) | Solution A | - | Transparent | White |
| | Solution B | | Black | Black |
| Primary Ingredient | Solution A | - | Amine | Butylene |
| | Solution B | | Modified Epoxy | Butylene |
| Mixing Ratio | Weight A : B | - | 1 : 2 | 1 : 1 |
| Special Features | | | S3903-5 RoHS conforming product | Long Pot Life Low Hardness |

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 ※ Please understand that all comments and data recorded herein may be subject to change without prior notification.
 ※ Numerical values listed are measured values. They are not performance guarantees.

For more information

<http://www.ntt-at.com/product/adhesive/>



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