

# BLUESIL<sup>TM</sup> PAST M 494

**Description** **BLUESIL PAST M 494** is a polydimethylsiloxanic oil based silicone paste together with inert fillers.  
This paste is particularly adapted to protection and insulation of electrical switchgear and to protection applications against humidity.

- Examples of applications**
- Protection of electrical and electronic systems.
  - Protection against humidity of systems which are sensitive to mould growth.
  - Protection of small systems in the automotive industry.
  - Lubrication of plumbing.

- Advantages**
- **Highly hydrophobic.**
  - **Chemically inert.**
  - **Good dielectric properties.**
  - **Stability of properties over a wide temperature range.**
  - **In conformity with MIL S 8660 C specification.**
  - **UK MOD (Ministry of Defence) approved.**
  - **Approved for contact with drinking water.**

**Characteristics**

**1. Physical properties**

Colour..... translucent to whitish

**Note:** *Slight variations in colour may occur but these do not affect the final properties of the product.*

Specific gravity at 25 °C..... 1.0

Penetration worked 60 strokes, 1/10<sup>e</sup> mm..... 270  
(Standards NF T 6012 - ASTM D 217, DIN 51804)

Penetration unworked, 24 h-1/10<sup>e</sup> mm..... 240  
(Standards NF T 6012 - ASTM D 217, DIN 51804)

Bleed after 24 h at 200 °C..... < 8 %

Evaporation after 24 h at 200 °C..... < 2 %

**2. Thermal properties**

Maximum continuous operating temperature, °C..... + 200

Minimum continuous operating temperature, °C..... - 50

**Note:** *These thermal properties are not restrictive: shorter exposure times, when in peak operating conditions authorise use at higher temperatures.*

Thermal conductivity at 25 °C, W/mK..... 0.21

# BLUESIL™ PAST M 494

## Characteristics (cont')

### 3. Dielectric properties

|  |                      |
|--|----------------------|
| Dielectric strength, kV/mm.....                      | > 20                 |
| <i>(Standards NF C 26225 - ASTM D 419 - IEC 243)</i> |                      |
| Dielectric constant at 1 kHz.....                    | 2.6                  |
| <i>(Standards NF C 26230 - ASTM D 150 - IEC 250)</i> |                      |
| Power factor 1 kHz.....                              | 1.10 <sup>-4</sup>   |
| <i>(Standards NF C 26230 - ASTM D 150 - IEC 250)</i> |                      |
| Volume resistivity, Ω.cm.....                        | > 1.10 <sup>13</sup> |
| <i>(Standards NF C 26215 - ASTM D 257 - IEC 93)</i>  |                      |

## Processing

It is recommended to apply **BLUESIL PAST M 494** onto clean and dry surfaces (degreased if necessary).

**BLUESIL PAST M 494** is applied with a brush, with a paint brush, with a spatula or with a paste gun.

**BLUESIL PAST M 494** can be diluted in aliphatic or chlorinated solvents to facilitate its application when being applied in thin coats.

## Packaging

- 25 kg pails on pallets of 10 units
- 200 kg drums on pallets of 4 units

## Storage and shelf life

When stored in its original unopened packaging at a temperature between + 2°C and + 50°C, **BLUESIL PAST M 494** must be used within 36 months of the manufacture date shown on the packaging.

Once this expiry date is past, Bluestar Silicones no longer guarantees the conformity of the product with the sales specifications.

**BLUESIL PAST M 494** should be stored in a cool, dry place.

## Safety

Consult the Safety Data Sheet for **BLUESIL PAST M 494**.

# BLUESIL™ PAST M 494

Visit our website [www.bluestarsilicones.com](http://www.bluestarsilicones.com)

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