

Indusil NH Silicone

Description

Indusil NH silicone is a low molecular weight silicone polymer functionalized with two amino groups per polymer chain and capable of undergoing typical primary amino reactions.

Indusil NH silicone is an excellent candidate for use in organic polymers (e.g., epoxy resins) requiring the typical enhancements offered by silicone to properties such as flexibility, release and low surface energy.

Key Features and Typical Benefits

- Low molecular weight for easy incorporation into organic polymeric blends
- Participation in a variety of reactions (particularly chain extension) due to its primary amino groups

Typical Physical Properties

| | |
|-----------------------------|-------------------------------------|
| Appearance | Colorless to slightly yellow liquid |
| Actives Content, % | 100 |
| Viscosity, cSt | 25 |
| Density, g·cm ³ | 0.930 |
| Boiling Point, °C | > 165 |
| Flash Point, °C, closed cup | 193 |

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

Potential Applications

- Polymer modification
- Textiles and leather
- Corrosion inhibition
- PU mold release
- Reactive intermediate

General Considerations for Use

Indusil NH silicone has shown effectiveness at levels as low as 0.5% on the weight of the organic resin. Depending on the effect desired, the concentration may need to be increased.

The reaction conditions are typical those of primary amines.

It is best to test the compatibility of Indusil NH silicone with the reaction mixture and, if necessary, use a compatibilizing solvent.

Patent Status

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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.

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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