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Technical Data Sheet

MATERIAL: Polydimethylsiloxane

CATALOG NUMBER: 1006

CAS NUMBER: 63148-62-9

DESCRIPTION: Dimethylsiloxane homopolymer

FORMULA: $(C_2H_6SiO)_x$

TYPICAL PROPERTIES:

Appearance: Viscous liquid Viscosity: $1,000 \text{ cs } (25^{\circ}\text{C})$ Refractive index: $n_D^{20} 1.404$ Density: $0.971 (25^{\circ}\text{C})$ Pour point: -50°C

Flash point: >214°F

Solubility: Aliphatic and chlorinated hydrocarbons,

THF, toluene

GENERAL INFORMATION: Polydimethylsiloxane (PDMS) belongs to a group of organosilicon

compounds which are commonly referred to as silicones. Its applications

range from contact lenses and medical devices to elastomers, in shampoos, caulking, lubrication oils and heat resistant tiles.

STRUCTURE:

$$- \left\{ \begin{array}{c} CH_3 \\ \\ \\ Si \end{array} \right\}_{n}$$

$$CH_3$$

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