



Technical Data Sheet

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| MATERIAL: | Polydimethylsiloxane |
| CATALOG NUMBER: | 1006 |
| CAS NUMBER: | 63148-62-9 |
| DESCRIPTION: | Dimethylsiloxane homopolymer |
| FORMULA: | $(C_2H_6SiO)_x$ |

TYPICAL PROPERTIES:

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|-------------------|---|
| Appearance: | Viscous liquid |
| Viscosity: | 1,000 cs (25°C) |
| Refractive index: | n_D^{20} 1.404 |
| Density: | 0.971 (25°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: