



## Technical Data Sheet

<b>MATERIAL:</b>	Polydimethylsiloxane
<b>CATALOG NUMBER:</b>	1007
<b>CAS NUMBER:</b>	63148-62-9
<b>DESCRIPTION:</b>	Dimethylsiloxane homopolymer
<b>FORMULA:</b>	$(C_2H_6SiO)_x$

**TYPICAL PROPERTIES:**

Appearance:	Liquid
Viscosity:	10,000 cs (25°C)
Refractive index:	$n_D^{20}$ 1.404
Density:	0.971 (25°C)
Melting point:	-24°C
Flash point:	>212°F
Solubility parameter:	7.4
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:**