



Technical Data Sheet

MATERIAL:	Polydimethylsiloxane
CATALOG NUMBER:	1004
CAS NUMBER:	63148-62-9
DESCRIPTION:	Dimethylsiloxane homopolymer
FORMULA:	$(C_2H_6SiO)_x$

TYPICAL PROPERTIES:

Appearance:	Liquid
Viscosity:	10 cs (25°C)
Refractive index:	n_D^{20} 1.399
Density:	0.935 (25°C)
Glass transition temp:	-123°C
Melting point:	-60°C
Flash point:	>214°F
Solubility parameter:	7.2
Solubility:	Aliphatic and chlorinated solvents, 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: