



Technical Data Sheet

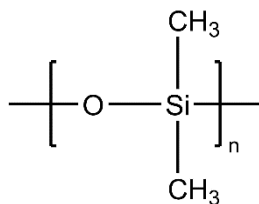
MATERIAL:	Polydimethylsiloxane
CATALOG NUMBER:	145
CAS NUMBER:	63148-62-9
DESCRIPTION:	Dimethylsiloxane homopolymer
FORMULA:	$(C_2H_6SiO)_x$

TYPICAL PROPERTIES:

Appearance:	Viscous liquid
Viscosity:	60,000 cs (25°C)
Refractive index:	n_D^{20} 1.403
Approx. Mw:	115,000 [GPC]
Density:	0.976 (25°C)
Glass transition temp:	-123°C
Melting point:	-34°C
Boiling point:	>400°C
Flash point:	610°F
Solubility parameter:	7.4
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:

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