

TECHNICAL DATA SHEET

Product Name:

POLYDIMETHYLSILOXANE (3~1000cst)

ITEM	SPECIFICATION							
Appearance	Colorless transparent liquid							
Viscosity(25°C), mm ² /s ≈	3	10	50	100	300	350	500	1000
Relative density(25°C) ≈	0.890	0.930	0.959	0.965	0.970	0.970	0.970	0.970
Flow point(°C) ≈	-80	-65	-55	-55	-50	-50	-50	-50
Flash point(open cup °C) ≈	75	182	280	≥300	≥300	≥300	≥300	≥300
Refractive index (25°C)≈	1.395	1.399	1.402	1.403	1.403	1.403	1.403	1.403
Surface energy (mN/m,25°C)≈	18.9	20.1	20.7	20.9	21.1	21.1	21.1	21.1
Vapor Pressure(200°C,Pa)≈	-	1.33	1.33	1.33	1.33	1.33	1.33	1.33
Volume expansion coefficient(25°C~100°C),cm ³ /cm ³ /°C ≈	1.16*10 ⁻⁵	1.08*10 ⁻⁵	1.05*10 ⁻³	9.45*10 ⁻⁴	9.45*10 ⁻⁴	9.45*10 ⁻⁴	9.45*10 ⁻⁴	9.45*10 ⁻⁴
Heat capacity(40°C~200°C),J/(g.K)	-	1.88	1.46	1.46	1.46	1.46	1.46	1.46
Thermal conductivity,W/(m.K),≈	0.11	0.13	0.16	0.16	0.16	0.16	0.16	0.16
Temperature coefficient of viscosity(1-100°Cv/40°Cv),≈	-	0.57	0.59	0.6	0.62	0.62	0.62	0.62