



Feature

- Has superior wear resistance. Demonstrates outstanding resistance against abrasive wear caused by dust and coarse mating surface, in particular.
- Has rubber elasticity and flexibility, superior impact resistance, and large vibration-proof and noise suppressing effects.
- Has superior cold resistance, weather resistance and ozone resistance.
- Injection-molded and can be made in complicated shapes.

OILES 50 P1000 series (Adipate Type Polyurethane Elastomer)

Mechanical properties			P1085	P1090	P1095	P1098
Specific gravity	JIS K 7311	—	1.21	1.22	1.22	1.23
Tensile strength	JIS K 7311	N/mm ² [kgf/cm ²]	43.1 {440}	43.1 {440}	45.1 {460}	45.1 {460}
Tensile elongation at break	JIS K 7311	%	610	600	550	550
Tear strength	JIS K 7311	N/mm [kgf/cm]	113 {115}	127 {130}	147 {150}	157 {160}
VICAT softening point	JIS K 7206	°C	110	118	122	125
Hardness (Note)			85 (HDA)	90 (HDA)	95 (HDA)/46 (HDD)	98 (HDA)/53 (HDD)
Heat resistant temp.			80°C			
Characteristics			Light load, Impact resistance			

※The values shown above are typical values, not the standard values.

OILES 50 P5000 series (Caprolactone Type Polyurethane Elastomer)

Mechanical properties			P5090	P5095	P5098
Specific gravity	JIS K 7311	—	1.18	1.18	1.19
Tensile strength	JIS K 7311	N/mm ² [kgf/cm ²]	46.1 {470}	47.1 {480}	49.0 {500}
Tensile elongation at break	JIS K 7311	%	500	500	500
Tear strength	JIS K 7311	N/mm [kgf/cm]	137 {140}	147 {150}	157 {160}
VICAT softening point	JIS K 7206	°C	130	131	141
Hardness (Note)			90 (HDA)	95 (HDA)/46 (HDD)	98 (HDA)/53 (HDD)
Heat resistant temp.			80°C		
Characteristics			Light to mid load, Water resistance, Heat resistance		

※The values shown above are typical values, not the standard values.

OILES 50 P5000D series (Caprolactone Type Polyurethane Elastomer)

Mechanical properties			P5059D	P5064D	P5074D
Specific gravity	JIS K 7311	—	1.20	1.21	1.23
Tensile strength	JIS K 7311	N/mm ² [kgf/cm ²]	49.0 {500}	51.0 {520}	52.0 {530}
Tensile elongation at break	JIS K 7311	%	450	400	350
Tear strength	JIS K 7311	N/mm [kgf/cm]	177 {181}	206 {210}	275 {281}
VICAT softening point	JIS K 7206	°C	143	145	151
Hardness (Note)			59 (HDD)	64 (HDD)	74 (HDD)
Heat resistant temp.			100°C		
Characteristics			Heavy load, Water resistance, Heat resistance		

※The values shown above are typical values, not the standard values.

(Note) hardness : JIS K 7215 durometer hardness
 HDA-type A durometer hardness
 HDD-type D durometer hardness