

Mechanical Properties		Unit	Parameter	Mechanical Properties		Unit	Parameter
Density		g/cm ³	2.13-2.30	Thermal Conductivity		W/cm. °C	25.1
Melt		°C	327	Linear expansion coefficient		10 ⁻⁵ . °C	12.3→11.6 (30 °C → 80°C)
Tensile Strength		Mpa	14—35	Dielectric strength		KV/mm	17
Elongation		%	200-400	Volume resistivity		Ω.cm	10 ¹⁸
Compressive strength		Mpa	12	Surface resistivity		Ω	10 ¹⁷
Impact strength		J/m	157	Dielectric constant (5010 ⁶ Hz)			2.1
Hardness			56	Dielectric loss (5010 ⁶ Hz)			< 3x10 ⁻⁴
Dynamic friction coefficient			0.11	Arc resistance		Sec	> 300
Coefficient of static friction			0.05	Acid base resistant			Good
Thermal deformation	1.83Mpa	°C	55	Flammability			Resistant
	0.46Mpa	°C	122	Water absorption			< 0.01
Max Term.		°C	260				
Mini Term.		°C	-180	Compression set	13.7 Mpa	%	14
					24por 24°C	%	8

Glass filled PTFE with 40%	Improved wear resistance,compression strength ,creep resistand ,chemical resistance ,Good performance in oxidizing environment .
Carbon filled PTFE with 30%	Improved electrical and termal conductivity, Low coefficient of friction from water ,steam ,dry .chemical ,superior ware resistance increase
Graphite filled PTFE with 20%	Improve wear resistance ,decrease friction
Bronze filled PTFE with 30%	Improved compression strength,wear resistant ,high thermal conductivity ,Abrasion and reduced chemical resistance .
Molybdenum disulphide filled PTFE with 20%	Wear resistant ,decrease friction