PTFE 15%Verre 5%MoS2

Product Properties:

- Improved thermal dimensional stability
- Improved creep resistance
- Improved compression strength
- Exceptional temperature resistance
- Excellent chemical stability
- Excellent electrical insulating properties
- Reduced friction & wear; Low friction behaviour
- Improved surface hardness

	Propriété	Méthode	Unités	Spécification
Physique	Couleur	-	-	Blue – grey
	Densité	ASTM D792	g/cm 3	2,250 – 2,300
	Absorption d'eau	ASTM D570	%	0,05
	Inflammabilité	UL 94		V-0
Mécanique	Résistance à la traction	ASTM D4745	MPa	≥ 18
	Elongation	ASTM D4745	%	≥ 200
	Dureté	ASTM D2240	Shore D	≥ 58
	Dureté sphérique	ASTM D785	MPa	≥ 25
	Déformation sous charge (140 Kg/cm2 de 24 hrs. à 23° C)	ASTM D621	%	11 - 13
	Déformation permanente (après 24 hrs. Relaxation at 23° C)	ASTM D621	%	5,5 – 7,5
	Coefficient de friction statique	ASTM D1894		0,12 – 0,25
	Coefficient de friction dynamique	ASTM D1894		0,10 – 0,12
	Coefficient d'usure	-	cm^3 min 10^{-8} Kg m h	15 - 25
Therm.	Conductivité thermique	ASTM C177	W/ m.K	0,34
	Coefficient de dilatation thermique linéaire de 25 à 100 °C	ASTM D696	10-5/ °C	9 – 13
Elect.	Résistivité volumique	ASTM D257	Ohm·cm	10^{15}
	Résistivité de surface	ASTM D257	Ohm	10^{14}

Typical properties.

PTFE Glass Mos is a Compound preferred for parts and components requiring very good mechanical properties. PTFE Glass Mos offers an excellent combination of properties Typical of the PTFE fluoropolymer resins:

- Service Temperature: PTFE Glass Mos offers excellent resistance to continuous service temperatures – working conditions from -100° C (-148°F) up to 250°C (482°F) and, for limited periods, even to higher temperatures; product's low temperature resistance allows satisfactory performance down to -200°C (-328°F).
- Chemical resistance: PTFE Glass Mos offers high inertness towards nearly all known chemicals. Only attacked elemental alkali metals, chlorine trifluoride and elemental fluorine at high temperature and pressures might affect properties. Glass fibres is chemically inert except for its reactivity with hydrofluoric acid and strong bases.
- Solvents resistance: PTFE Glass Mos offers insoluble properties in all solvents up to temperatures as high as 300° C (572° F). Certain highly fluorinated oils only swell and dissolve PTFE at temperatures close to the crystalline melting point.
- Secondary Filler: PTFE Glass Mos contains, in addition to glass fiber, a small amount of MoS2 which further increases hardness and wear resistance of PTFE and decreases friction.

PTFE Glass Mos Compound enhances some characteristics of virgin PTFE such as wear, compression strength, deformation under load, cold creep, thermal conductivity and dimensional stability.