
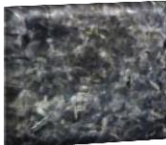



Carbon Different types of % 	Enhanced chemical resistance. Good thermal and electrical conductivity. Good resistance to deformation. Excellent resistance to load with low coefficient of friction and high wear resistance	<ul style="list-style-type: none"> ➤ Bearing for high speed ➤ Elastic bands for self-lubrication compressors. ➤ Valve seats
Carbon Fiber Different types of % 	Better tensile strength and elongation compared with carbon compound. Low friction-wear resistance in water Excellent creep resistance in high temp or low temp.	<ul style="list-style-type: none"> ➤ Gasket ➤ Valve seat ➤ Bearing
MoS₂ Different types of % 	Enhanced hardness, tenacity, lubrication, and wear resistance. Reduce the time of abrasion in beginning. No electrical effect. Enhanced chemical resistance (except for oxidative acid)	<ul style="list-style-type: none"> ➤ Packing ➤ Piston-ring.

[Physical properties of PTFE Compound]

	Properties	Unit	VIRGIN PTFE (C-800)	Compounds						
				15% GLASS FIBER	25% GLASS FIBER	15% CARBON	23% CARBON + 2% GRAPHITE	29% CARBON + 3% GRAPHITE	60% BRONZE	15% GLASS FIBER + 5% MoS ₂
Temp 23°C	Tensile strength	kgf/cm ²	362	260	199	160	112	71	173	220
	Elongation	%	400	285	235	140	65	35	250	320
	Compressive strength	kgf/cm ²	44	69	73	90	90	92	84	71
Temp 100°C	Tensile strength	kgf/cm ²	138	88	64	57	39	31	55	-
	Elongation	%	440	350	305	185	120	60	305	-
	Compressive strength	kgf/cm ²	-	116	18	23	23	28	21	-
	Hardness Shore D	points	57	62	65	68	68	70	70	65
	Specific gravity	g/cm ³		2.20	2.22	-	-	-	3.90	2.26

(** Test methods : ASTM D638-03 / ASTM D790 / ASTM D695 / ASTM D792-00 / ASTM D2240-04)

Fillers

Fillers	Features
Polyimide	Providing excellent wear resistance and low coefficient of friction to soft metals like bronze.
Aromatic Polyester	It improves mechanical properties as compression, flexibility.
Al₂O₃	Enhance insulating and improve mechanical and physical properties in high voltage process.
CaF₂	It is suitable for which directly contact HF or strong alkali corroding glass.
Pigments	Any pigment enduring heat process can be applied.

(** Fillers can be blended with PTFE in different combinations and percentages.)

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