

TETRA-MAX rPTFE

▼ Material Composition and Application

Tetra-Max rPTFE materials are prepared through a unique process of biaxial orientation resulting in improved properties not found in conventional PTFE materials. The restructuring process helps to eliminate the problems of creep relaxation and cold-flow, a common occurrence found in skived or molded PTFE. These materials are widely utilized in a variety of harsh chemical environments with individual attributes for almost any application.

Tetra-Max HGF Hollow-Glass Filled PTFE (Blue)

Tetra-Max HGF incorporates PTFE resins with Hollow-Glass Spheres for improved seating capabilities in applications where bolt load is limited. Tetra-MAX HGF is a highly compressible material and is ideal for stress sensitive fragile joints such as plastic and fiberglass.

Tetra-Max BSF Barium-Sulfate Filled PTFE (Off-White)

Tetra-Max BSF is an off-white in color Barium-Sulfate filled restructured PTFE material. It is recommended for applications sealing highly aggressive media found in the chemical and petrochemical sectors. Tetra-Max BSF can resist strong caustics, moderate acids, chlorine, gases, water, steam, cryogenics, hydrocarbons, and aluminium fluoride. It does not support bacterial growth and conforms to FDA regulations.

Tetra-Max SF Silica Filled PTFE (Fawn)

Tetra-Max SF utilizes Silica filler encapsulated within the matrix of to achieve an ideal sealing material for the chemical and petrochemical industries. It provides a tighter seal over conventional PTFE with reduced product loss and emission. Tetra-Max SF can be used in strong acids (except hydrofluoric), steam, solvents, hydrocarbons, chlorine or cryogenics.

TETRA-MAX rPTFE materials are offered in 60" X 60" sheets in thicknesses 1/32", 1/16" & 1/8" and in standard and non-standard gasket sizes and shapes.

PHYSICS PROPERTIES	TEST METHOD	HFG	BSF	SF
Color	--	Blue	Off white	Fawn
PH Range	--	0-14	0-14	0-14
Pressure (PSI)	--	800	1,200	1,200
Temperature (°F)	--	-328 to 500	-328 to 500	-328 to 500
P X T (PSI x °F)	1/16"	350,000	350,000	350,000
	1/8"	250,000	250,000	250,000
Compressibility	ASTM F 36 A	--	4-10	7-12
Recovery (%)	ASTM F 36 A	30	40	40
Tensile Strength PSI	ASTM 152	2000	2000	2000
Density	ASTM D 792	1.70	2.90	2.10
Creep Relaxation (%)	ASTM F 38	40	11	18
Leakage (ml/hr)	ASTM F 37 A	0.12	--	--