

Specification Sheet

Description: Glass/MoS2 filled PTFE
Material: T08/000

Property	Spec	Value
Specific Gravity	D-792-66	2.27
Tensile Strength	D-1708-79	2375 psi
Elongation	D-1708-79	240%
Deformation		
a) 78°F, 2000psi, 24hrs	D-621-64	
Total Deformation		7.1%
Permanent Deformation		3.9%
b) 500°F, 600psi, 24hrs	D-621-64	
Total Deformation		10.9%
Permanent Deformation		6.8%
Flexural Strength	D-790-80	
a) 1% Strain		1350 psi
b) 3% Strain		2250 psi
Flexural Modulus	D-790-80	2.41 x 10 ⁵ psi
Compressive Strength	D-695-80	
a) 0.20% Offset		1810 psi
b) 5% Strain		1100 psi
Hardness	Shore D	58
Limiting PV		
a) 10 fpm		12,500 psi x fpm
b) 100 fpm		12,500 psi x fpm
c) 1000 fpm		15,500 psi x fpm
Wear Factor	K x 10 ⁻¹⁰	6
Coefficient of Friction		
a) Static @ 33.33 psi		0.06
b) Dynamic @ 33.33 psi, 150 fpm		0.09
Color		Bluish Gray

Description:

Molybdenum disulfide and a glass fiber filler make up this blend of PTFE. With the addition of MoS₂, hardness is increased while lowering wear rate and coefficient of friction. This results in long service life compared to some other elastomer based materials. PTFE/Glass-Moly material also shows sufficient deformation resistance to extrusion which makes it ideal for rod and piston seals. This material is commonly used in water based fluids where chemical reactions between the fillers and the water are a concern. There are many uses which include, Rod seals, Piston seals, guide rings, anti-extrusion rings, etc.