

Specification Sheet

Description: 15% Glass Filled PTFE
Material: T03/000

Property	Spec	Value
Specific Gravity	D-792-66	2.20
Tensile Strength	D-1708-79	2800 psi
Elongation	D-1708-79	290%
Deformation		
a) 78°F, 2000psi, 24hrs	D-621-64	
Total Deformation		11.0%
Permanent Deformation		8.3%
b) 500°F, 600psi, 24hrs	D-621-64	
Total Deformation		21.0%
Permanent Deformation		14.2%
Flexural Strength	D-790-80	
a) 1% Strain		1225 psi
b) 3% Strain		2025 psi
Flexural Modulus	D-790-80	1.55 x 10 ⁵ psi
Compressive Strength	D-695-80	
a) 0.20% Offset		1200 psi
b) 5% Strain		1900 psi
Hardness	Shore D	55
Limiting PV		
a) 10 fpm		8,500 psi x fpm
b) 100 fpm		10,000 psi x fpm
c) 1000 fpm		12,500 psi x fpm
Wear Factor	K x 10 ⁻¹⁰	12
Coefficient of Friction		
a) Static @ 33.33 psi		0.05
b) Dynamic @ 33.33 psi, 150 fpm		0.09
Color		Off White

Description:

PTFE/Glass is a glass fiber filled PTFE which is stable in a variety of conditions. This blend is used to decrease wear rate and creep compared to a Virgin PTFE. This results in long service life compared to some other elastomer based materials. PTFE/Glass material also shows sufficient deformation resistance to extrusion which makes it ideal for rod and piston seals. This material is somewhat abrasive and should not be used in dynamic application where soft metals are being used as the mating surface. There are many uses which include, Rod seals, Piston seals, anti-extrusion rings, etc.