

Material Specification

T08 Revision A

Glass/Molybdenum Disulfide Filled Polytetrafluoroethylene PTFE/Glass-MoS₂

Material Specification					
Created: MZ	Date: 10/12/2010	Revision: A	Released: 10/12/10	Material Code: T08	Description: PTFE

1. Scope

This document describes property requirements for a material primarily used in sealing applications.

2. Specification

Hardness	ASTM D-2240	58 D
Specific Gravity	ASTM D-792-66	2.27
Tensile Strength	ASTM D-1708-79	2,375 psi
Elongation	ASTM D-1708-79	240%
Flexural Modulus	ASTM D-790-80	2.41 x 10 ⁵ psi
Flexural Strength	ASTM D-790-80	
a) 1% Strain		1,350 psi
b) 3% Strain		2,250 psi
Deformation		
a) 78° F, 2000psi, 24hrs	ASTM D-621-64	
Total Deformation		7.1%
Permanent Deformation		3.9%
b) 500° F, 600psi, 24hrs	ASTM D-621-64	
Total Deformation		10.9%
Permanent Deformation		6.8%
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	6.0
Coefficient of Friction		
a) Static @ 33.33 psi	ASTM D-3702	0.06
b) Dynamic @ 33.33 psi, 150 fpm	ASTM D-3702	0.09
Color		Gray

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3. Test References

Hardness	ASTM D-2240
Specific Gravity	ASTM D-792-66
Tensile Strength	ASTM D-1708-79
Elongation	ASTM D-1708-79
Flexural Modulus	ASTM D-790-80
Flexural Strength	ASTM D-790-80
Deformation	ASTM D-621-64
Coefficient of Friction	ASTM D-3702

4. Revisions

Revision: A
Date: 10/12/2010
Written By: MEZ
Approved: CRH
Date Approved: 10/13/10
Reason: Updated to new format

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