

Material Specification

T90

Revision B

PTFE/Carbon Fiber

Material Specification					
Created: CH	Date: 2/9/2010	Revision: B	Released: 2/9/10	Material Code: T90	Description: PTFE

1. Scope

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

2. Specification

Hardness	ASTM D-2240	66
Specific Gravity	ASTM D-4894	2.08
Tensile Strength	ASTM D-4894	4000 psi
Tensile Elongation	ASTM D-4894	280%
Deformation under load		
a) 2175psi, 24hrs	ASTM D-621	
Total Deformation		5.0%
Permanent Deformation		3.0%
Coefficient of Thermal Expansion	ASTM E-831	
a) 86-212F		6.9in/(in F)
b) 212-392F		9.8in/(in F)
c) 392-500F		12.4in/(in F)
Color		Dark Gray

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3. Test References

Hardness	ASTM D-2240
Specific Gravity	ASTM D-4894
Tensile Strength	ASTM D-4894
Tensile Elongation	ASTM D-4894
Deformation	ASTM D-621
Coefficient of Thermal Expansion	ASTM E-831

4. Revisions

Revision: A
Date: 2/9/2010
Written By: CRH
Approved: RGC
Date Approved 2/9/2010
Reason: Updated to new format

Revision: B
Date: 9/27/2011
Written By: RGC
Approved: CRH
Date Approved 9/27/2011
Reason: Thermal Expansion added

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