



Tetralene, Inc.
Tetralene Elastomer, Inc.

The Source for Molded and Machined High Performance Components

Tetralene Alloy No. Alloy 10
Composition Virgin Teflon®

Physical Properties	Test Method	Units	Values
Specific Gravity	D4894		2.16
Tensile Strength @ Break (73°F)	D4894	PSI	4,500
Elongation @ Break (73°F)	D4894	%	400
Flexural Strength			
Flexural Modulus (73°F)	D790	PSI	50,000-90,000
Deformation Under Load (a) 73°F, 2,000 psi, 24hr. Total Deformation	D621	%	16.7
Permanent Deformation			8.4
(b) 500°F, 600 PSI, 24hr. Total Deformation			32.8
Permanent Deformation			19.2
Compressive Strength (a) 0.2% Offset (b) 5% Strain	D-695	PSI	1,150 700
Hardness	D-785	Shore D	51
Thermal Conductivity	D435	BTU-in/hr FT ² - °F	1.7
Coefficient of Thermal Expansion @ 73°F-140°F	E228	in/in - °F	7 X 10 ⁻⁵
PV @ 100fpm (70° - 80°F)		lb/in ² x fpm	1,800
Wear Factor (k) x 10 ⁻¹⁰		in ³ -min/ft-lb- hr	2,500
Coefficient of Friction A. Static (500psi) B. Dynamic @ 100fpm PV: 8,000-10,000			0.05-0.08 0.13

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