



TYPICAL PROPERTIES

Avalon® 09

Sealing Systems

Compound No./Material Name: Avalon® 09	Material Description: PTFE, Graphite Filled	Color: Dark Gray to Black
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Description (ASTM Standard)	Typical
Physical & Mechanical Properties	
Specific Gravity (D792)	2.15
Hardness, Type D, Points (D2240)	60
Tensile Strength @ Break, psi [MPa] (D4745)	2,600 [17.9]
Elongation @ Break, % (D4745)	225
Compressive Strength @ 25% Strain, psi [MPa] (D695)	3,400 [23.4]
Deformation Under Load @ 2,000 psi [13.7 MPa] @ 78°F [26°C], % (D621)	8
Deformation Under Load @ 1,000 psi [6.89 MPa] @ 300°F [149°C], % (D621)	14
Shear Strength @ 80°F [27°C], psi [MPa] (D732)	2,800 [19.3]
Shear Strength @ 100°F [38°C], psi [MPa] (D732)	2,700 [18.6]
Shear Strength @ 150°F [66°C], psi [MPa] (D732)	2,400 [16.5]
Shear Strength @ 200°F [93°C], psi [MPa] (D732)	2,250 [15.5]
Shear Strength @ 300°F [149°C], psi [MPa] (D732)	2,100 [14.5]
Coefficient of Static Friction Under 33.3 psi [0.29 MPa] (D3702)	0.05
Coefficient of Dynamic Friction Under 33.3 psi [0.29 MPa] @ 150 FPM (D3702)	0.07
Wear Factor, in.3-min/lb-ft-hr (D3702)	30 x 10 ⁻¹⁰

Notes:

1. Material is tested per specification AMS 3678/2. For customers who require full certification to the specification, AMS 3678/2 compliance must be specifically identified at time of quote and purchase orders must state AMS 3678/2 compliance is required.
2. Reference GT Stock/Solid Code: 019.

Greene Tweed

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