



TYPICAL PROPERTIES

Reference Document No. GTS-4109S

Compound No./Material Name: Material Description:
Avalon® 09 PTFE, Graphite Filled

DESCRIPTION (ASTM Standards)	TYPICAL
Physical Properties	
Color	Dark Gray to Black
Specific Gravity (D1457)	2.15
Hardness, Shore D, Points (D2240)	60
Tensile Strength, psi [MPa] (D1457)	2,600 [17.9]
Elongation, % (D1457)	225
Compressive Strength @ 25% Strain, psi [MPa] (D695)	3,400 [23.4]
Permanent Deformation Under 2,000 psi (13.8 MPa) @ 78°F (26°C), % (D621)	8
Permanent Deformation Under 1,000 psi (6.9 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 (0.23 MPa) (D3702)	0.05
Coefficient of Dynamic Friction Under 33.3 psi (0.23 MPa) @ 150 f.p.m. (D3702)	0.07
Wear Factor, cubic inch-min./lb.-ft.-hr. (D3702)	30 x 10E ⁻¹⁰

typical properties / avalon® 09

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