



# TYPICAL PROPERTIES

Reference Document No. GTS-4089S

Compound No./Material Name: Material Description:  
**Avalon® 89** PTFE, Thermoplastic & Carbon Filled, Lubricated

DESCRIPTION (ASTM Standards)	TYPICAL
<b>Physical Properties</b>	
Color	Dark brown to black
Hardness, Shore D, Points (D2240)	65 – 70
Specific Gravity (D792)	1.95
Tensile Strength @ Break, psi [MPa] (D4745)	2,200 (15.2)
Elongation, % (D4745)	190
Permanent Deformation Under 2,000 psi (13.8 MPa) @ 78°F (26°C), % (D621)	2.5
Shear Stress @ 80°F (27°C), psi [MPa] D732	2,750 (19.0)
Shear Stress @ 150°F (66°C), psi [MPa] D732	2,550 (17.6)
Shear Stress @ 200°F (93°C), psi [MPa] D732	2,500 (17.2)
Shear Stress @ 250°F (121°C), psi [MPa] D732	2,150 (14.8)
Shear Stress @ 300°F (149°C), psi [MPa] D732	2,050 (14.1)
Shear Stress @ 400°F (204°C), psi [MPa] D732	2,050 (14.1)
Coefficient of Static Friction (D3702)	0.11 – 0.215
Coefficient of Dynamic Friction (D3702)	0.24 – 0.30
Wear Factor, by Weight (D3702)	0.90 x 10 <sup>-10</sup>

typical properties / avalon® 89

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