

		Units	ASTM Test Method	Acrylonitrile Butadiene Styrene
MECHANICAL	Strength to Weight Ratio	ksi	–	5.3
	Specific Gravity @73 F	–	D792	1.04
	Tensile Strength @73 F, (ult)/(yld)	psi	D638	5500 (ult)
	Tensile Modulus of Elasticity @ 73 F	psi	D638	346000
	Tensile Elongation at Break @ 73 F	%	D638	20
	Flexural Strength @ 73 F	psi	D790	9300
	Flexural Modulus of Elasticity @ 73 F	psi	D790	340000
	Shear Strength @ 73 F	psi	D732	–
	Compressive Strength, (% Deformation) @73 F	psi	D695	–
	Compressive Modulus of Elasticity @73 F	psi	D695	–
	Hardness, Rockwell, Scale as noted @73 F	–	D785	(R105)
	Hardness, Durometer, Shore D @73 F	–	D2240	–
	Izod Impact, (Notched) @73 F	ft-lb/in of notch	D256 TypeA	7.0
	Coefficient of Friction, (Dry vs. Steel) Dynamic	–	–	0.35
	Limiting PV, (with 4 to 1 factor of safety applied)	psi-ft/min	–	–
THERMAL	Coefficient of Linear Thermal Expansion @73 F	in/in/F	E-831 (TMA)	5.2E-05
	Heat Deflection Temperature @ 264 psi	F	D648	220
	Tg-Glass transition temperature, (Amorphous)	F	D3418	–
	Melting Point, (VS=Vicat Softening Temp.)	F	D3418	220
	Continuous Service Temperature in Air, (Max.)	F	–	160
	Thermal Conductivity	BTU-in/hr-ft ² -F	–	1.18
ELECTRICAL	Dielectric Strength, Short Term	Volts/mil	D149	450
	Volume Resistivity	ohm-cm	D257	1.0E+15
	Dielectric Constant @ 10E6 Hz	–	D150	–
	Dissipation Factor @ 10E6 Hz	–	D150	–
	Flammability @ 3.1 mm unless noted	–	UL94	HB (6.10mm)
H ₂ O	Water Absorbtion, Immersion, 24 Hrs	% by wt.	D570(7)	0.30
	Water Absorbtion, Saturation	% by wt.	D570(7)	0.70