

PHYSICAL AND MECHANICAL PROPERTIES

KOAT-A-ROLL® 85 Shore "A"

Physical Properties	Data	Units
Hardness	D-2240	85 Shore "A"
Tensile Strength	D-412	5000 psi
100% Modulus	D-412	780 psi
300% Modulus	D-412	1700 psi
Elongation	D-412	500%
Compression set	D-395	16%
Abrasion loss	D-1044	3mg
Split tear	D-470	460 lb./in.
Dynamic coefficient of friction (against 125 rms steel)	D-1894	0.54
Bashore resilience	D-2632	36%
Brittle temperature		90°F
Glass transition temperature		-44.1°F
Vicat softening		196°F
Reduction in sound as compared to metal roller		7-10 decibels
Load rating		Equal to the load rating of the roller being covered
Specific gravity		1.20g/cc

Electrical Properties	Test	Condition	Value
Dielectric Strength	D-179	Short Term	330 volts/mil
Volume Resistivity	D-257	—	2.1x10 ¹² ohm-cm
Surface Resistivity	D-257	—	3.3x10 ¹³ ohms
Dielectric Constant	D-150	60 cps	6.34
		10 ³ cps	6.08
		10 ⁶ cps	5.15
Loss Factor	D-150	60 cps	0.154
		10 ³ cps	0.116
		10 ⁶ cps	0.326
Dissipation Factor	D-150	60 cps	0.0242
		10 ³ cps	0.0191
		10 ⁶ cps	0.0632
Capacitance	D-150	60 cps	69.5 μFarads
		10 ³ cps	66.7 μFarads
		10 ⁶ cps	56.8 μFarads

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