



PHYSICAL AND MECHANICAL PROPERTIES

KOAT-A-ROLL®

PROPERTIES	DATA	UNITS
Hardness	D2240	83 Shore A
Tensile strength	D412	5000 psi
100% Modulus	D412	780 psi
300% Modulus	D412	1700 psi
Elongation	D412	500%
Compression set	D395	16%
Abrasion loss	D1044	3 mg
Split tear	D470	460 lb/in
Dynamic coefficient of friction (against 125 rms steel)	D1894	0.54
Bashore resilience	D2632	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

FDA & 3A CONFORMANCE

Standard Koat-A-Roll® conforms to FDA 21 CFR 175.105, 177.1680, 177.2600 and meets the 3A Sanitary Standards for Multiple-Use Materials Used as Product Contact Surfaces for Dairy Equipment Number 20-15 testing requirements and are subject to the limitations of these and any other regulations.

ELECTRICAL PROPERTIES	TEST	CONDITION	VALUE
Dielectric Strength	D179	Short Term	330 volts/mil
Volume Resistivity	D257	-	2.1x10 ¹² ohm-cm
Surface Resistivity	D257	-	3.3x10 ¹³ ohms
Dielectric Constant	D150	60 cps	6.34
		10 ³ cps	6.08
		10 ⁶ cps	5.15
Loss Factor	D150	60 cps	0.154
		10 ³ cps	0.116
		10 ⁶ cps	0.326
Dissipation Factor	D150	60 cps	0.0242
		10 ³ cps	0.0191
		10 ⁶ cps	0.0632
Capacitance	D150	60 cps	69.5 μFarads
		10 ³ cps	66.7 μFarads
		10 ⁶ cps	56.8 μFarads

The information herein is believed to be reliable, but is not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein.