

PHYSICAL AND MECHANICAL PROPERTIES

KOAT-A-ROLL® 70 Shore "A"

Physical Properties	Data	Units
Hardness	D-2240	70 Shore "A"
Tensile Strength	D-412	3100 lb./in. ²
Tensile stress at 100% elong.	D-412	440 lb./in. ²
Tensile stress at 300% elong.	D-412	690 lb./in. ²
Elongation at break	D-412	765%
Compression set, method B ^a		—
22 hours at 158° F (70°C)	D-395	39%
22 hours at 73°F (23°C)		16%
Taber abrasion		
H-18 wheel, 1000-g load, 1000 cycles	D-3489	12 mg loss
Tear strength, die "C"	D-624	350 lb./in.
Flexural Modulus		—
73°F (23°C)	D-790	1910 lb./in. ²
-22°F (-30°C)		18,470 lb./in. ²
Bashore resilience	D-2632	67%
Glass transition temperature (T _g)	DMA ^b	-94°F
Vicat softening temperature (rate A)	D-1225	1
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	D-792	1.06g/cm ³

^aPost-cured for 16 hours at 230°F (110°C)

^bDMA – Dynamic Mechanical Analysis (not an ASTM test)

Applications

70A Koat-A-Roll® complies with FDA food-contact regulations 21 CFR 177.1680 and 177.2600