

Humane Manufacturing LLC Mat Specifications

Original Physical Properties

Tensile Strength – PSI	800
Ultimate Elongation - %	275
Tear Strength – LBS/IN	135
Durometer – Shore A	63

Heat Aged @ 70 C For 240 hrs

780
220
125
67

Heat Aged @ 70 C for 480 hrs

750
175
112
69

Other Physical Properties

Specific Gravity – water = 1	1.12
Density – LBS/CU FT	70
“R” Value – 1/BTU/HR/SQFT/IN/Degree Fahrenheit	1.0
Coefficient of Expansion – IN/IN/Degree Fahrenheit	0.00012
Coefficient of Friction – dry	0.85
Coefficient of Friction – wet	0.95
Abrasion – Taber, 1000 CY, MG	300
Recycled Content – Black %	93
Recycled Content – Colored %	87
Recycled Rubber Purity - %	99.5
Flame Resistance – UL94HB	Pass
Flame Resistance – MIL-M15562F	Pass

Environmental & Chemical

Abrasion, Creep, Impact, Resistivity
 Vibration, Sound, Oxidation, Alcohol
 Water, Insulation, Bacterial Growth
 Mild Acids and Alkalines
 Tear, Steam, Weather, Animal and Vegetable oils
 Concentrated Acid and Alkalines
 Ozone, Gasoline, Aromatic Hydrocarbons

Resistance

Good
 Good
 Good
 Good
 Fair
 Fair
 Poor

Thickness Tolerances

3/8" Mats - $\pm .035$ 3/4" Mats - $\pm .045$
 1/2" Mats - $\pm .040$ 1+ Mats - $\pm .060$

Length and Width Tolerances

4 x 6 $\pm 1/4$ "
 Trued/Waterjet cut $\pm 1/16$ "

Mat Bevels

30 degrees truncated

Durometer Tolerance

60-65

Original Compression – Deflection Results

Solid Mat (PSI)	Deflection (%)	Anti Fatigue Mat (PSI)
20	5	9.5
50	10	22
150	20	65
750	50	320

All specification tests are performed in accordance with appropriate ASTM standards to ensure quality, safety, and durability. Humane mats are manufactured from recycled tire rubber, all objectionable material is removed. The rubber is then vulcanized under heat and pressure to form a durable product. No fillers are added. Humane mats are easy to install and virtually maintenance free. Mats are most easily trimmed with a utility knife or coarse toothed jigsaw.