Humane Manufacturing LLC Mat Specifications

Original Physical Properties		Heat Aged @ 70 C For 240 hrs	Heat Aged @ 70 C for 480 hrs
Tensile Strength – PSI	800	780	750
Ultimate Elongation - %	175	120	75
Tear Strength – LBS/IN	135	125	112
Durometer – Shore A	63	67	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	Resistance
Abrasion, Creep, Impact, Resistivity	Good
Vibration, Sound, Oxidation, Alcohol	Good
Water, Insulation, Bacterial Growth	Good
Mild Acids and Alcalines	Good
Tear, Steam, Weather, Animal and Vegetable oils	Fair
Concentrated Acid and Alcalines	Fair
Ozone, Gasoline, Aromatic Hydrocarbons	Poor

Thickness Tolerances

3/8" Mats - ± .035
½" Mats - ± .040
¾" Mats - ± .045
1+ Mats - ± .060

Mat Bevels

30 degrees trunicated

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.