

# MADRAS TECHNICAL SPECIFICATIONS

Madras is semi-aniline, enhanced grain leather with a matte finish.  
As a Leathershield product, it offers excellent durability for heavy traffic areas with minimal maintenance.



PROPERTY	TEST METHOD	RESULT
Average Hide Size		50 FT2
Average Thickness	ISO 2589	0.8 - 1.0 mm
Tensile Strength	ISO 3376	min.10 N/mm2 = 17.50
Elongation at Break	ISO 3376	min 35% = 61.66%
Tear Strength	ISO 3377-2	min 40 N = 37.92
Flexing Endurance (20,000 cycles)	ISO 5402	20,000
Colour Fastness to Artificial Light	ISO 105 B 02	min. 4 (Blue Scale)
Colour Fastness to Rubbing (500 Dry Rubs, 250 Wet Rubs)	ISO 11640 , ISO 11640	5 (Grey Scale), 4-5 (Grey Scale)
Finishing Adhesion	ISO 11644	min 3 N/cm = 13.10
Determination of pH	ISO 4045	min. 3,2
Soil Release: Oily Stain Method (Ketchup)	AATCC #130-2018	Grade 5
Soil Release: Oily Stain Method (Veg Oil)	AATCC #130-2018	Grade 5
Soil Release: Oily Stain Method (Wine)	AATCC #130-2018	Grade 5
Fire & Burning Behaviour (Cigarette & Match)	BS 5852:2006	Pass
Ignitability BS 5852-0 (Cigarette)	BS EN 1021-1:2014	Pass
Ignitability BS 5852-1 (Match)	BS EN 1021-1:2014	Pass
California Technical	Cal Tech Bulletin 117-2013	Pass
Cigarette Ignition Resistance	UFAC/NFPA 260	Class 1
Boston Fire Dept	BFD IX-I	Pass
Wyzenbeek - (Oscillatory Cylinder Method) @ 100,000 cycles	ASTM D 4157.07	Pass
REACH	1907/2006/EC	Produced in conformance with REACH directives.
Water Repellency: Spray Test	AATCC 22-2017,	95
Water Resistance: Hydrostatic Pressure Test	AATCC 127-2017	(cm of water)>1000.0
Oil Repellency	AATCC 118-2020	AATCC Rating Number Pass # 3
Aqueous Liquid Repellency (Water/Alcohol)	AATCC 193-2017	Grade Number 8 (50:50/water: isopropyl alcohol)
Soil Release: Oily Stain Release Method (Staining Agent: Blood)	AATCC Test Method 130-2018	Stain Release Rating: Grade 5 (Ivory Snow)
Soil Release: Oily Stain Release Method (Staining Agent: Urine)	AATCC Test Method 130-2018	Stain Release Rating: Grade 5 (Ivory Snow)
Soil Release: Oily Stain Release Method (Staining Agent: Blood)	AATCC Test Method 130-2018	Stain Release Rating: Grade 5 (10:1 Bleach solution)
Soil Release: Oily Stain Release Method (Staining Agent: Urine)	AATCC Test Method 130-2018	Stain Release Rating: Grade 5 (10:1 Bleach solution)
Cold Crack	ISO 17233	No Finish Cracks
Blocking Resistance	D 6116	No Blocking
Cold Crack	ISO 17233	No Finish Cracks
Blocking Resistance	D 6116	No Blocking