

Specifications	Erurotouch HPI	Units	standard Range & Value	Testing Protocol
Geometric & Physical Properties				
Metrics				
Nominal Thickness	0.5 / 0.7 (± 0.10)	mm	-	-
Thickness tolerance	0.57 to 0.65	mm	± 0.10	EN 438-2-5
Density	1.38 to 1.40	gms/cm3	1.35 Min	EN ISO 1183-1
Roundness of edges	≤ 1.5	mm	≤ 1.5 deviation	EN 438-2-7
Squareness of edges	≤ 1.5	mm		EN 438-2-8
Flatness	≤ 54	mm	≤ 60 deviation	EN 438-2-9
Dimensional Stability at high temperature				
- longitudinal	≤ 0.35	%	≤ 0.55 Max	EN 438-2-17
Transverse	≤ 0.65	≤ 1.05 Max	≤ 0.55	
Resistance to Boiling Water	5	rating	4 Min	EN 438-2-1
Surface Characteristics				
Surface Defects				
- Spot Defects	≤ 1	mm2/m2	≤ 1	EN 438-2-4
- Linear Defects	≤ 10	≤ 10	≤ 10	mm/m2
Resistance to surface wear (initial point)	250	No. of resolutions	150 Min	EN 438-2-1
Resistance to Steam	4	Rating	4 Min	EN 438-2-1
Resistance to Wet Heat at 100 °C	5	Rating (min.)	4min	EN 438-2-1
Dry heat resistance (160 Degree C)	5	Rating	4 Min	EN 438-2-1
Scratch Resistant	3	N	2.0 Min	EN 438-2-2
Stain Resistant	5	Rating	5 Min	EN 438-2-2
Light fastness under artificial light, Grey Scale	5	Rating	4 min	EN 438-2-2
Gloss Units				
- Soft Touch	7	GU	<10	
- Other texture	>10		-	
Contact Angle				
- Soft Touch	95	°	>90	ISO 19403-1 ISO 19403-5
- Other textures	88		<90	
Mechanical Specifications				
Resistance to Cracking	4	Rating	4 Min	EN 438-2-2
Impact Resistance				
- Small Diameter Ball	23	N	20 Min	EN 438-2-20
- Large Diameter Ball (drop height for ≤10mm imprint)	980	mm	≥ 800	EN 438-2-21
Minimum Bending Radius (Convex & Concave)	18	cm	20	-
Combustion Performance & Flame Behavior				
Reaction to Fire	(FSI): 26/75	class	(FSI): ≤ 25	EN 13501-1
Thermal Conductivity	0.000669	cal/s·cm·°C	0.000573	EN 12524
Ecological and Human Health Considerations				
Antibacterial Efficacy & Activity				
- Reduction in 24 hours	%	upto 99.99	95.0 (Min)	ISO 22196:2011
- Activity after 24 hours	Log Reduction	Exceeds	2.0 (Min)	
Volatile Organic Compounds (VOC) Emission	A	Class	A	ISO 16000-9
Formaldehyde Release	0.02	ppm	-	EN 16516:2017
TVOC	0.2	ppm	-	UL-2818:2013
Total Aldehydes	25	µg/m³	>30	UL-2818:201
Product sanitization/hygiene	A	Rating	A	NSF/ANSI 35
Transfer of constituents to Food during contact	3% Acetic Acid (1%) 95% Ethanol Iso-Octane less than 0.1	-	-	EN 1186-1:2002 EN 1186-3:2002 EN 1186-14:2002
Antiviral Efficacy	95 100	% Reduction in 2 hrs % Reduction in 24 hrs	95.0 (Min)	ISO 21702-2019
Antifungal Efficacy	No Growth	Growth after 28 days	1	ASTM G-21-2015



GUJARAT TEST HOUSE
(HEALTH CARE DIVISION)
IEQ / ISO 17025 : 2005 Accredited And ISO 9001 : 2008 Certified



NOBLE LAMINATES PVT. LTD.

ISO 9001:2015

The Quality Management System Applicable To:

SCOPE : MANUFACTURE & SUPPLY PF

HIGH PRESSURE DECORATIVE AND INDUSTRIAL LAMINATED SHEET