ECONOMY ◆ EXCELLENCE ◆ ETHICS

Test Values of Luvih Compact Board as per EN-438-4

Product: Bloc **Thickness: 6 mm** **Finish: Luvih on Face Side ,Luvih on Bottom side**

Property	Test Method as EN:438-2	Property or Attribute	Unit of Measurement (max or min)	Standard values	Merino Values
Thickness Tolerance	5	Dimension	5.0 <t<8.0 mm mm	±0.40 mm	±0.30 mm
Length and Width Tolerance	6	Dimension	mm	+ 10	+8
				- 0	-0
Straightness of Edge	7	Max deviation	mm/m	1.5	Conforms
Edges Squareness	8	Max deviations	mm/m	1.5	Conforms
Flatness	9	Max deviations	mm/m	5	Conforms
Density	EN ISO 1183			1.35	>1.40
Resistance to Surface wear	10	Wear Resistance (IP)	Revolution(min)	> 150	400
Resistance to Immersion in boiling water	12	Increase in Thickness	% (max)	2	<0.65
		Increase in Mass	% (max)	2	<0.55
		Appearance -Gloss Finish -Others	Rating (min)	>3 >4	5
Resistance to Water Vapour	14	Appearance -Gloss Finish -Others	Rating (min)	>3 >4	5
Resistance to Dry Heat (160°)	16	Appearance -Gloss Finish -Others	Rating(min)	>3 >4	5
Dimensional Stability at Elevated temp. (Max %)	17	Cumulative dimensional change	Machine direction	≤0.30	≤0.25
			Cross direction	≤0.60	≤0.50
Resistance to Impact (Large dia ball)	21	Drop Height	mm (min)	1800	≥1800
Resistance to Scratching	25	Force N (min)	Rating	2	4
Resistance to Stains	26	Appearance	Group 1 & Group 2	5	5
			Group 3	4	4
Resistance to Crazing	24	Appearance	Rating (min)	>4	5
Light Fastness	27	Grey Scale	Rating (min)	4	4
Flexural Modulus	EN ISO 178:2003	Stress	MPa (min)	9000	>10000
Flexural Strength	EN ISO 178:2003	Stress	MPa(min)	80	>100

Feature Properties

Property	Test Standard	Property or Attribute or Simulant	Unit of Measurement (max or min)	Standard values	Merino Values
Resistance to Chemicals	Chemical Spot Test SEFA 8.1 PL 2016	Appearance	Pass	Pass	Pass for all 49 reagents
Specific Migration	EN 13130-1:2004	3% Acetic Acid	mg/kg	Not detected	Conforms
Overall Migration of plastic	EN 1186	3% Acetic Acid 95% Ethanol Iso-Octane	mg/kg mg/kg mg/kg	Not detected	Conforms
Food Contact Safe	Regulation (EU) No.10/2011	Food Contact Materials Performance	Compliant -Conditions of use reported in the declaration of conformity		
Anti-Bacterial Efficacy	JIS Z 2801:2010	Microbial activity & microbial kill	R≥2	Passes the Quantitative assessment of Activity	Complies
Anti-fungal Efficacy	ASTM G-21:2015	Antifungal Qualitative	Traces of Growth	Rating 0	Complies