

Test Values of Merino EWC Grade Compact Laminate as per (EN438-4)
Thickness: 18 mm

Properties	Test Method as per EN 438-2 CLAUSE NO. <i>Unless otherwise stated</i>	Property or Attribute	Unit (max or min)	Values as per EN 438-4	MERINO Values
Length & Width Tolerance	6.4.6		mm	+10 mm - 0 mm	+8mm -0mm
Thickness Tolerance	EN-438, Table1	$16.0 \leq t \leq 20.0$	mm	±0.70	±0.50
Compact Density	ISO 1183	Density	g/cm ³ (min)	1.35	1.39
Resistance to Surface wear	10	Wear Resistance	Revolutions(min)	≥350	425
Resistance to immersion in Boiling water	12	Increase in Thickness Increase in Mass Appearance	max (%) max (%) Grade(min)	2 2 4	0.95 0.85 4
Resistance to Dry Heat at 180°C	16	Appearance	Grade (min) Gloss Others	3 4	4 4
Dimensional Stability at elevated temp.	17	Cumulative dimensional change	max (%) MD CD	0.30 0.60	0.25 0.55
Resistance to Impact by Large – Diameter Ball	21	Drop Height	mm (min)	1800	>1950
Resistance to Staining	26	Appearance	Grade (min) Group 1 & 2 Group 3	5 4	5 4
Resistance to Cigarette Burns	30	Appearance	Grade(min)	3	3
Light fastness (Xenon arc)	27	Contrast	Grey Scale	4 to 5	5
Resistance to Water Vapour	14	Appearance	Grade(min)	4	4
Resistance to Crazing	24	Appearance	Grade(min)	4	4
Flexural Modulus Stress	ISO 178	Stress	MPa(min)	9000	>10500
Flexural Strength	ISO 178	Stress	MPa(min)	80	>100
Tensile Strength	ISO 527	Stress	MPa(min)	60	>80

Test Values of Merino EWC Grade Compact Laminate

<i>Properties</i>	<i>Test method as per EN 438-2 Clause No</i>	<i>Property or attribute</i>	<i>Unit (max or min)</i>	<i>EGS And EGF</i>	<i>Merino Value</i>
Resistance to UV-light	28	Contrast Appearance	*Gray scale (min)	No Requirement	Fulfilled
			*Rating (min)	No Requirement	Fulfilled
Resistance to artificial weathering	29	Contrast Appearance	*Gray scale (min)	3	3.5
			*Rating (min)	4	4

*As per table

Contrast

Rating Scale for assessing change in colour using the gray scale

Gray Scale N° 5	No change of colour
Gray Scale N° 4.5	Very small change of colour
Gray Scale N° 4	Small change of colour
Gray Scale N° 3.5	Recognizable change of colour
Gray Scale N° 3	Clearly Recognizable change of colour
Gray Scale N° 2.5	Very Clearly Recognizable change of colour
Gray Scale N° 2	Strong change of colour
Gray Scale N° 1	Very Strong change of colour

Appearance

Rating Scale for assessment of appearance according to EN 438-2(2005)

Rating 5	No Visible Change
Rating 4	Change of Gloss only
Rating 3	Hairline Surface Cracks and/or erosion of surface
Rating 2	Surface Cracks
Rating 1	Blistering and/or delamination

Note: All our products comply to applicable standards, but results may differ based on the application and handling of the product. Please Refer <http://www.merinolaminates.com/warranties.aspx> for warranty clauses.