

Test Report of Exterior Grade Impreza

Grade: Exterior Grade Impreza

Thickness: 12 mm

Design No : 40001

Finish: Sandstone

Properties	Test Method as per EN438-4:2016	Property	Unit of Measurement (max or min)	Standard Result as Per EN 438-4	Merino Values	
Thickness (mm)	Clause No.5		mm	±0.50	±0.40	
Length & Width Tolerance	Clause No.6		mm	+ 10	+8	
			mm	-0	-0	
Straightness of edge (max.)	Clause No.7		mm/m	1.5	Conforms	
Squareness (max.)	Clause No.8		mm/m	1.5	Conforms	
Flatness (max.)	Clause No.9		mm/m	3	Conforms	
Resistance to Surface wear (Revolution Minimum)	Clause No.10	Wear Resistance	Revolutions (min)	IP≥150	475	
Resistance to immersion in Boiling Water (Appearance) (Grade not worse than)	Clause No.12	Thickness increase	% (max)	2%	0.57	
		Mass increase	% (max)	2%	0.44	
		Gloss finish	Rating (min)	≥ 3	5	
		Others	Rating (min)	≥ 4		
		Edge	Rating(min)	≥ 3		
Resistance to Water Vapour	Gloss	Clause No.14	Appearance	Rating(min)	≥ 3	5
				Others	Rating(min)	
Resistance to Dry Heat at 160°C	Gloss	Clause No.16	Appearance	Rating(min)	≥ 3	5
				Others	Rating(min)	
Dimensional Stability at elevated temp. (Max. %)	Clause No.17	Cumulative Dimensional Change	Machine Direction	≤ 0.3%	0.15	
			Cross Direction	≤ 0.6%	0.22	
Resistance to wet heat (100 degree)	Clause No.18	Appearance	Rating (min)	4	5	
Resistance to Impact by large – Diameter Ball	Clause No.21	Drop height	(mm)	≥ 1800	2000	
Resistance to Scratching	Clause No.25	Smooth finish	Rating (min)	≥ 2	2	
		Textured finish	Rating (min)	≥ 3		
Resistance to Staining (Grade not worse than)	Clause No.26	Appearance	Group 1 & Group 2	≥ 5	5	
			Group 3	≥ 4	4	
Resistance to Cigarette Burns Appearance (Grade not Worse than)	Clause No.30	Appearance	Rating (min)	≥ 3	4	
Resistance to Craziing	Clause No. 24	Appearance	Rating (min)	≥ 4	5	
Flexural Modulus	EN ISO 178:2003	Stress	MPa (min)	9000	10500	
Flexural Strength	EN ISO 178:2003	Stress	MPa(min)	80	88	
Tensile Strength	EN ISO 527-2:1996	Stress	MPa (min)	60	66	
Density	EN ISO 1183-1:2006	g/cm ³	(min)	1.35	1.47	