

TECHNICAL INFORMATIONS

NO	FEATURE	UNIT	VM500 SERIES	STANDARD
1	Gloss level (60° angle)	Gloss	3,0 GU	TS EN 14323: 2021- +C2:C1612, Art. 6,12
2	Scratch resistance	N	1,2 N (class 4D)	DIN 68861-4: 2013-02
3	Cross-cut test (paints and varnishes)	Class	1a-1 (Classification 1)	TS EN ISO 2409: 2013-06
4	Surface resistance to micro-scratches (Method B)	Class	5th grade 5 (no change)	TS EN 16611:2023
5	Thickness of the top layer	mm	0,480 mm	TS EN 13647
6	Assessment of surface resistance to chemical cold liquids (Acetic acid, acetone, ammonia solution, citric acid, cleaning agent, ethanol etc.)	Class	5th grade 5 (no change)	TS EN 12720: 2009+ A1: 2015-01
7	Bending strength	N / mm ²	In the transverse direction= 24.9 N/mm2 In the longitudinal direction= 34.1 N/mm2 Average= 29.5 N/mm2	TS EN 310: 2009-04
8	Modulus of elasticity in bending	N / mm ²	Transverse direction= 2841 N/mm2 In the longitudinal direction = 3719 N/mm2 Average= 3280 N/mm2	TS EN 310: 2009-04
9	Surface soundness (tensile strength)	N / mm ²	1,39 N/mm2	TS EN 311: 2005-03
10	Tensile strength vertical to the surface	N / mm ²	0,45 N/mm2	TS EN 319: 1999-04
11	Density	kg / m ³	728 kg/m3	EN 323 I TS EN 323:1999-04
12	Determination of swelling in thickness after immersion in water (24 hours)	-	1,10%	TS EN 317: 1999-04
13	Thickness tolerance	mm	± 0,3 mm	TS EN 324-1
14	Bow tolerance	mm / m	3,2 mm / m	EN 323 I TS EN 323:1999-04
15	Anti Bacterial Activity Analysis	-	91,2% No problem	ISO 22196:2011
16	Safety of Toys - Part 3: Migration of Certain Elements	mm	Suitable	TS EN 71-3+A3:2018-11
17	Assessment of surface resistance to wet heat (80°C)	Class	Rating 5 (no change)	TS EN 12721+A1: 2014-02
18	Assessment of surface resistance to dry heat (100°C)	Class	Rating 5 (no change)	TS EN 12721+A1: 2014-02
19	Resistance to impact by large- diameter steel ball (500 mm I 1500 mm)	Class	No cracks were observed at a drop height of 1400 mm	TS EN 14323: 2021-12, Art. 6,13
20	Resistance to staining	Class	Benchmark 3	TS EN 14323: 2021-12, Art. 6,6
21	Burning cigarette	Class	Benchmark 3	EN 438-2+A1:,2018
22	Colorfastness to light	Grey Scala	4/5 Grade (according to grey scale)	EN 15187
23	Colorfastness to light (400 hour)	Grey Scala	4 Grade (according to grey scale)	TS EN 15187: 2009-03

(*) These values are weighted average of the test results.

