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## Marker Boards

### Properties of Ceramic Surface for Whiteboard Applications

PROPERTY	SPECIFICATION	VALUE
1. Thickness ceramic top coatings (typical)	ISO 2178	110 $\mu\text{m}$
2. Steel thickness		0.3 to 0.4 mm
3. Thickness back side enamel coatings (typical)	ISO 2178	35 $\mu\text{m}$
4. Total thickness		0.4 to 0.6 mm
5. Weight (typical)		3 to 3.5 $\text{kg}/\text{m}^2$
6. Gloss (typical)	ISO 2813 60 <sup>0</sup>	70%
7. Surface hardness	EN 101	Min. 5
8. Scratch resistance	ISO 15695	Min. 7 N
9. Pencil hardness	ASTM D-3363	No scratch, whatever pencil is used
10. Wear resistance	ASTM C 501 (Abrasive S 33/ 1 kg/1000 revs. )	Max. 0.1 g
11. Impact resistance	ISO 4532 (< 2 mm)	Min. 20 N
12. Cold acid resistance	EN 14483-1-9	Min. A
13. Solvent test: toluene, methylethylketone, ethylalcohol, Petroleum, grease, oil, ethylacetate or xylene	Dip 25 <sup>0</sup> C, 1.000 hrs	No change
14. Fire resistance	DIN 4102	Incombustible Class A 1
15. Colour stability	ASTM C 538	No color change
16. Dry-erasability		Good
17. Erasability of the water based markers with water		Excellent
18. Erasability of the permanent markers with methanol		Excellent

### Core Material

Particle Board- Made from 100% recycled post-consumer and post industrial waste.

### Backer

GI Steel 0.25 mm weighing 1.93  $\text{Kg}/\text{m}^2$

### Trim- Aluminium Extrusion

99% recyclable

Clear satin anodized finish

Finish options

### Adhesive

100% PVA

No VOCs

### Conclusion

Durability and superior performance, resulting in low maintenance costs and a return on investment.

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## Chalk Boards

### Properties of Ceramic Surface for Chalkboard Applications

PROPERTY	SPECIFICATION	VALUE
1. Thickness enamel top coatings (typical)	ISO 2178	95 $\mu\text{m}$
2. Steel thickness		0.3 to 0.4 mm
3. Thickness back side enamel coatings (typical)	ISO 2178	35 $\mu\text{m}$
4. Total thickness		0.4 to 0.6 mm
5. Weight (typical)		3 to 3.5 $\text{kg}/\text{m}^2$
6. Gloss	ISO 2813 60 <sup>0</sup>	3,5 – 9,5 %
7. Surface hardness	EN 101	Min. 5
8. Wear resistance	ASTM C 501 (Abrasive S 33/ 1 kg/1000 revs. )	Max. 0.1 g
9. Impact resistance	ISO 4532 (< 2 mm)	Min. 20 N
10. Solvent test: toluene, methylethylketone, ethylalcohol, Petroleum, grease, oil, ethylacetate or xylene	Dip 25 <sup>0</sup> C, 1.000 hrs	No change
11. Fire resistance	DIN 4102	Incombustible Class A 1
12. Colour stability	ASTM C 538	No color change
13. Writeability of chalk		Excellent ( $\Delta E^*_{94} \geq 20$ )
14. Dry-erasability of chalk		Excellent ( $\Delta E^*_{94} \leq 7$ )
15. Wet-erasability of chalk		Excellent ( $\Delta E^*_{94} \leq 2$ )
16. Chalk Consumption		Excellent (Max. 15g/200 cm )

### Core Material

Particle Board- Made from 100% recycled post-consumer and post industrial waste.

### Backer

GI Steel 0.25 mm weighing 1.93  $\text{Kg}/\text{m}^2$

### Trim- Aluminium Extrusion

99% recyclable

Clear satin anodized finish

Finish options

### Adhesive

100% PVA

No VOCs

### Conclusion

Durability and superior performance, resulting in low maintenance costs and a high return on investment.