

PLATFORM | SURFACES

TECHNICAL DATA SHEET FOR MASTERMIND CROSS + STAR

A) DIMENSIONS

<i>Characteristic</i>	<i>Norm</i>	<i>Average value</i>	
<i>Length and width</i>	EN ISO 10545-2	± 0.6 %	± 2.0 mm
<i>Thickness</i>	EN ISO 10545-2	± 5 %	± 0.5 mm
<i>Straightness of sides</i>	EN ISO 10545-2	± 0.5 %	± 1.5 mm
<i>Rectangularity</i>	EN ISO 10545-2	± 0.5 %	± 2.0 mm
<i>Surface flatness</i>			
<i>Central curvature</i>	EN ISO 10545-2	± 0.5 %	± 2.0 mm
<i>Side curvature</i>		± 0.5 %	± 2.0 mm
<i>Warp</i>		± 0.5 %	± 2.0 mm

B) PHYSICAL PROPERTIES

<i>Characteristic</i>	<i>Norm</i>	<i>Average value</i>
<i>Water absorption</i>	EN ISO 10545-3	< 0.5 % (BI_a)
<i>Breaking of rupture</i>	EN ISO 10545-4	> 1300 N
<i>Modulus of rupture</i>	EN ISO 10545-4	> 35 N/mm ²
<i>Resistance to surface abrasion (PEI)</i>	EN ISO 10545-7	4
<i>Scratch hardness (MOHS)</i>	EN 101	7
<i>Linear thermal expansion coefficient</i>	EN ISO 10545-8	6.5*10 ⁻⁶ /°C
<i>Resistance to thermal shock</i>	EN ISO 10545-9	<i>Guaranteed</i>
<i>Crazing resistance</i>	EN ISO 10545-11 ASTM C424	<i>Guaranteed</i>
<i>Frost resistance</i>	EN ISO 10545-12	<i>Guaranteed</i>
<i>Slip resistance</i>		
<i>Ramp test (shoes)</i>	DIN 51130	R9
<i>Ramp test (bare foot)</i>	DIN 51097	B
<i>Pendulum test</i>	UNE ENV 12633	Clase 2
<i>Pendulum test</i>	BS EN 13036-4:2011	40
<i>Coefficient of Friction DCOF(wet)</i>	ASTM BOT3000	≥ 0.42
<i>Coefficient of Friction (wet)</i>	ASTM C-1028	≥ 0.50
<i>Coefficient of Friction</i>	B.C.R.A. Method	μ ≥ 0.4
<i>Shade Variation</i>	---	V2
<i>Reaction to fire</i>	---	A1 _{FL} - s1 / A1- s1, d0

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c) CHEMICAL PROPERTIES

<i>Characteristic</i>	<i>Norm</i>	<i>Average value</i>
<u><i>Resistance to stains</i></u>	EN ISO 10545-14	5
<u><i>Chemical resistance</i></u>		
<u><i>Low concentration acids and alkalis</i></u>	EN ISO 10545-13	<u>GLA</u>
<u><i>High concentration acids and alkalis</i></u>		<u>GHA</u>
<u><i>Household chemicals</i></u>		<u>GA</u>

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TECHNICAL DATA SHEET FOR MASTERMIND HEX

a) DIMENSIONS

<i>Characteristic</i>	<i>Norm</i>	<i>Average value</i>	
<i>Length and width</i>	EN ISO 10545-2	± 0.6 %	± 2.0 mm
<i>Thickness</i>	EN ISO 10545-2	± 5 %	± 0.5 mm
<i>Straightness of sides</i>	EN ISO 10545-2	± 0.5 %	± 1.5 mm
<i>Rectangularity</i>	EN ISO 10545-2	± 0.5 %	± 2.0 mm
<i>Surface flatness</i>			
<i>Central curvature</i>	EN ISO 10545-2	± 0.5 %	± 2.0 mm
<i>Side curvature</i>		± 0.5 %	± 2.0 mm
<i>Warp</i>		± 0.5 %	± 2.0 mm

b) PHYSICAL PROPERTIES

<i>Characteristic</i>	<i>Norm</i>	<i>Average value</i>
<i>Water absorption</i>	EN ISO 10545-3	< 0.5 % (BI_a)
<i>Breaking of rupture</i>	EN ISO 10545-4	> 1300 N
<i>Modulus of rupture</i>	EN ISO 10545-4	> 35 N/mm ²
<i>Resistance to surface abrasion (PEI)</i>	EN ISO 10545-7	4 (Black 2)
<i>Scratch hardness (MOHS)</i>	EN 101	7
<i>Linear thermal expansion coefficient</i>	EN ISO 10545-8	6.5*10 ⁻⁶ /°C
<i>Resistance to termal shock</i>	EN ISO 10545-9	<i>Guaranteed</i>
<i>Crazing resistance</i>	EN ISO 10545-11 ASTM C424	<i>Guaranteed</i>
<i>Frost resistance</i>	EN ISO 10545-12	<i>Guaranteed</i>
<i>Slip resistance</i>		
<i>Ramp test (shoes)</i>	DIN 51130	R9
<i>Ramp test (bare foot)</i>	DIN 51097	B
<i>Pendulum test</i>	UNE ENV 12633	Class 2
<i>Pendulum test</i>	BS EN 13036-4:2011	40
<i>Coefficient of Friction DCOF(wet)</i>	ASTM BOT3000	≥ 0.42
<i>Coefficient of Friction DCOF (wet)</i>	ASTM C-1028	≥ 0.50
<i>Coefficient of Friction</i>	B.C.R.A. Method	μ ≥ 0.4

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TECHNICAL DATA SHEET FOR MASTERMIND HEX

<i>Characteristic</i>	<i>Norm</i>	<i>Average value</i>
<i>Slight color differences</i>	EN ISO 10545-16	$\Delta E_{cmc} < 0.75$
<i>Reaction to fire</i>	---	A1 _{FL} - s1 / A1- s1, d0
<i>Shade Variation</i>	---	V2

c) PROPIEDADES QUÍMICAS – CHEMICAL PROPERTIES

<i>Characteristic</i>	<i>Norm</i>	<i>Average value</i>
<i>Resistance to stains</i>	EN ISO 10545-14	5
<i>Chemical resistance</i>		
<i>Low concentration acids and alkalis</i>	EN ISO 10545-13	GLA
<i>High concentration acids and alkalis</i>		GHA
<i>Household chemicals</i>		GA