LG Hausys

HI-MACS® Cast shape Specification

Characteristics	Method	Result
General appearance	Visual	The visual surface has to be clean and free of dust. No visible sanding defects or scratches. No cracks or chipped parts.
Sanding	Visual	Brown Scotch Brite ® sponge
Different colour contamination – visual surface	Visual	> 0.7mm² (Ø 0.95mm): none 0,5-0,7mm² (Ø 0.8 - Ø 0.95mm): max 1 0,2-0,5 mm² (Ø 0.5 - Ø 0.8mm): within diameter 30cm, total area is smaller than 2,0 mm².
Holes – visual surface	Visual	> 0.5mm: none <0,5 mm: within diameter 30cm, max2.
Holes - rear side	Visual	> 5mm: none 2-5mm: max 20 < 2mm: max 20
Dimensional	Tape measure - calibre	See technical data sheet.
Colour, plain colour	Spectrophotometer CIE Lab, D65	Tolerance: ΔL: 0,5 Δa: 0,4 Δb: 0,6 ΔEmax: 1

CE Conformity – EN13310:2003 and EN14688:2007

Characteristics	Result	Requirement clauses EN 13310:2003 – EN 14688:2007
Draining of water	Pass	4.3 – 4.2
Resistance to dry heat – 180°C	Pass	4.4
Resistance to temperatures changes	Pass	4.5 – 4.3
Resistance against chemicals and staining agents	Pass	4.6 – 4.4
Resistance to scratching	Not applicable	4.7.1 – 4.5
Resistance to abrasion	Not applicable	4.7.2 – 4.5
Load stability	Not applicable	4.8 – 4.1
Flow rate of the overflow	Pass*	4.9 – 4.7

* A non-closeable outlet can be used as an overflow.

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HI-MACS® Cast shape technical data sheet

PROPERTIES	RESULTS	UNIT	METHOD
CE mark conformity	Achieved	---	UNI EN 14688:2007 UNI EN 13310:2003
Density	1.7	g/cm^3	Internal method
Water absorption after 48 hours	<0.05	%	UNI EN 62:2001
Barcol hardness	55	° Barcol scale	ASTM D 2583-81
Coefficient of longitudinal thermal expansion from 0 °C to +40 °C	41.3	µm/m °C	ASTM E 831:2006
Coefficient of longitudinal thermal expansion from 80 °C to +150 °C	107.1	µm/m °C	ASTM E 831:2006
Contact with foodstuff – overall migration	distilled water: 05 acetic acid 3%: 1.3 ethanol 10%: 0.5	mg/dm^2	UNI EN 1186:2003
Flexural strength	53	MPa	EN ISO 178:2003
Flexural modulus	7075	MPa	EN ISO 178:2003
Tensile strength	32	MPa	EN ISO 527:1996
Tensile strength – Elongation at rupture	0.62	%	EN ISO 527:1996
Tensile strength modulus	7036	MPa	EN ISO 527:1996
Impact strength on sinks (15 mm thickness)	10.0	Joule	UNI 10442:1995
Dry heat resistance	Light opacity at 160 °C repairable	---	EN 12722:1997
Wet heat resistance	Light opacity at 95 °C repairable	---	EN 12721:1997
Thermal stress resistance	Level 5: No defects checked	---	UNI 9429:1989
Xenon lamp resistance (1000 hours)	4/5	greyscale	EN ISO 4892-2:2006
Cigarette burns resistance	3 – light opacity repairable	---	UNI FA 275:1989
Fire resistance – small flame	class I	---	UNI 8457:1987 UNI 8457/A1:1996
Fire resistance – radiant panel	class I	---	UNI 9174:1987 UNI 9174/A1: 1996

The information you find here are linked to our material knowledge and they can be modified; moreover this technical card does not represent any guarantee or any product certification.

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