



HI-MACS[®] vs Mixed Product

Iron Ball Drop Test
Heat Resistance Test
Thermoforming Test
Hot-pan Test
UV Test

Artika kitchenm, Design: Pedini, Italy, pedini.it, Fabricator: FG Arredi srl, Italy, fgarredi.it, Material: HI-MACS[®], Babylon Beige

Iron Ball Drop Test

■ HI-MACS® vs Mixed Product

Iron Ball Drop Test

500g Iron ball, 90cm/height

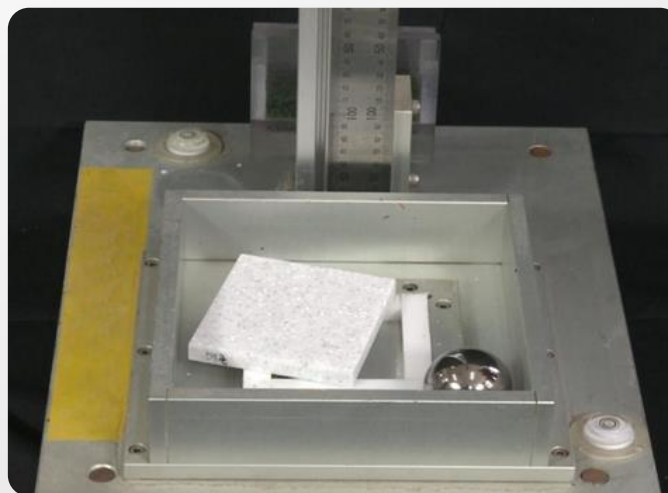
Heat Resistance Test

Thermoforming Test

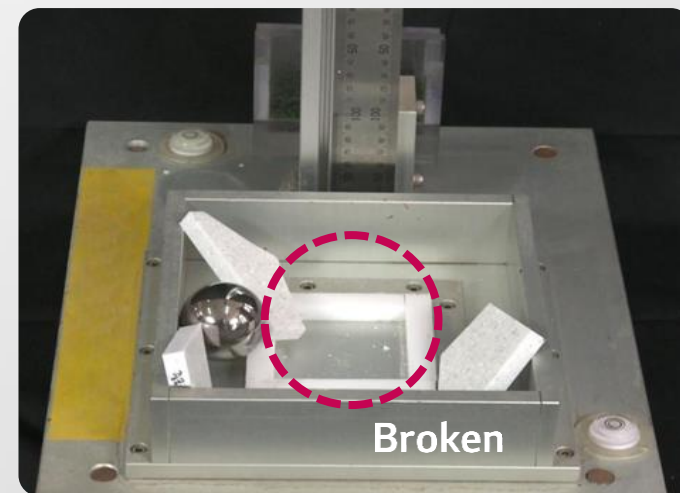
Hot-pan Test

UV Test

HI-MACS®



Mixed Product



Heat Resistance Test

■ HI-MACS® vs Mixed Product

Iron Ball Drop Test

Heat Resistance Test

1 hour in 170°C oven

Thermoforming Test

Hot-pan Test

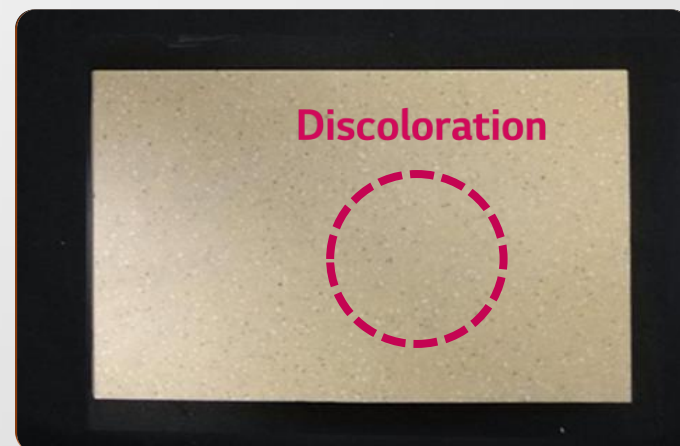
UV Test

HI-MACS®



$\Delta E : 1.61$

Mixed Product



$\Delta E : 22.87$

Thermoforming Test

■ HI-MACS® vs Mixed Product

Iron Ball Drop Test

Heat Resistance Test

Thermoforming Test

Being formed after
1 hour in 170°C oven

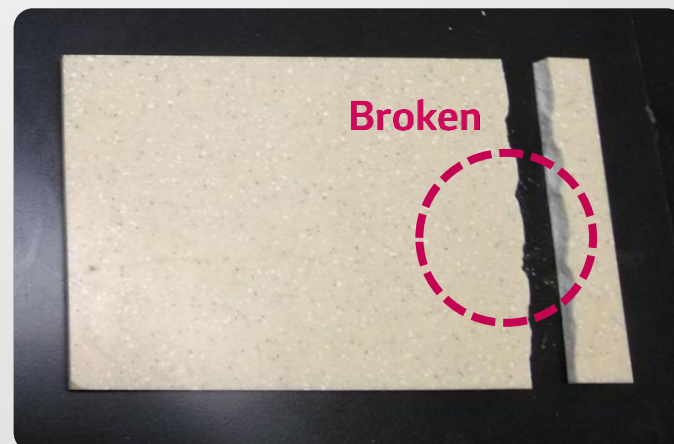
Hot-pan Test

UV Test

HI-MACS®



Mixed Product



Hot-pan Test

■ HI-MACS® vs Mixed Product

Iron Ball Drop Test

Heat Resistance Test

Thermoforming Test

Hot-pan Test

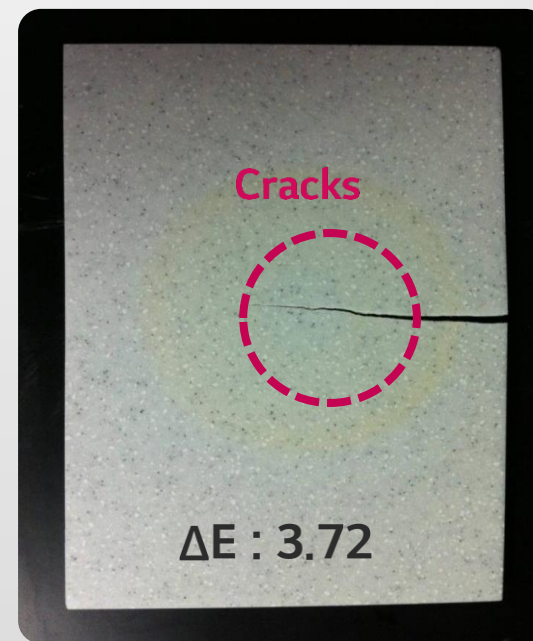
Putting 280°C hot-pan
for 10 minutes

UV Test

HI-MACS®



Mixed Product



UV Test

 HI-MACS® vs Mixed Product

Iron Ball Drop Test

Heat Resistance Test

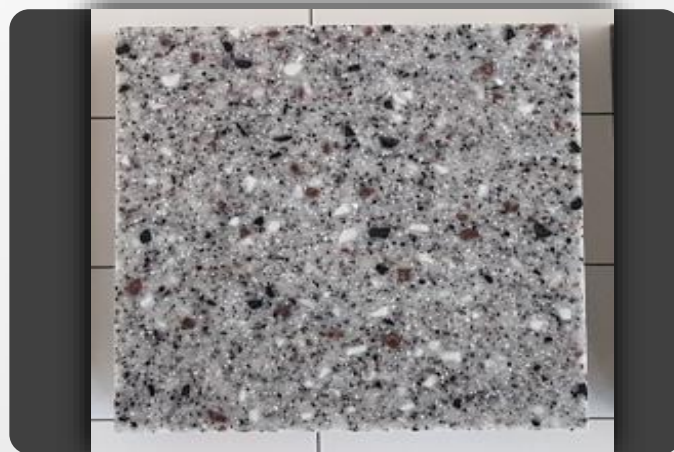
Thermoforming Test

Hot-pan Test

UV Test

250 hour in accelerated
weathering test machine
(equivalent to 375 days)

HI-MACS®



$\Delta E : 0.58$

Mixed Product

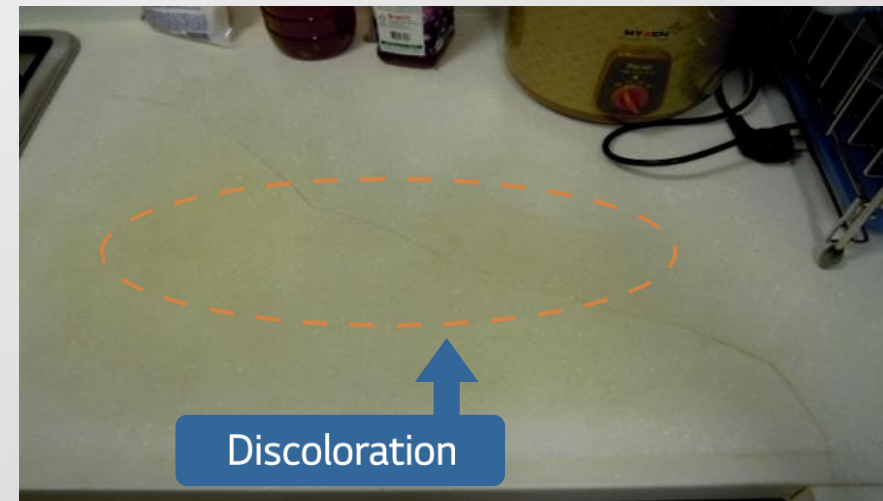
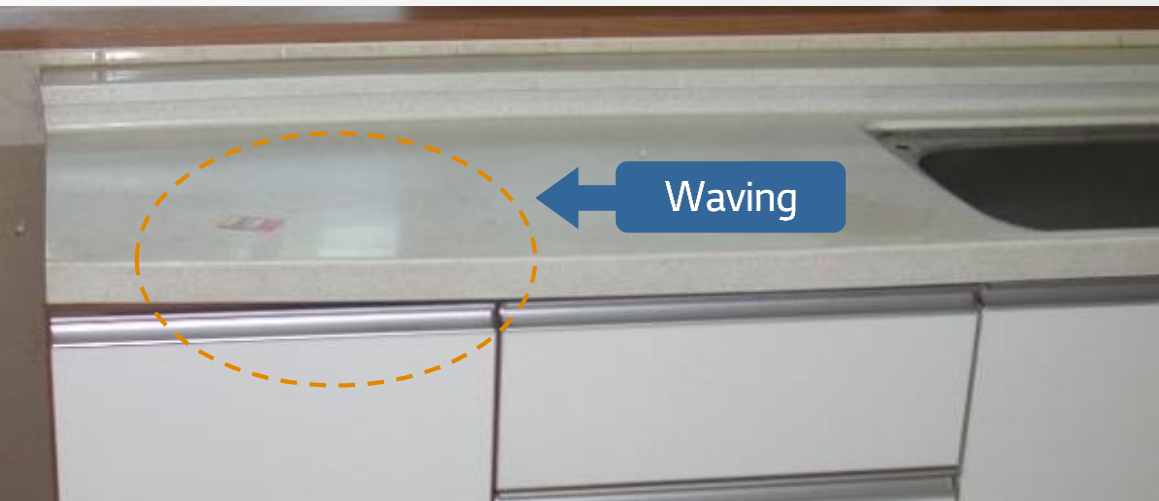
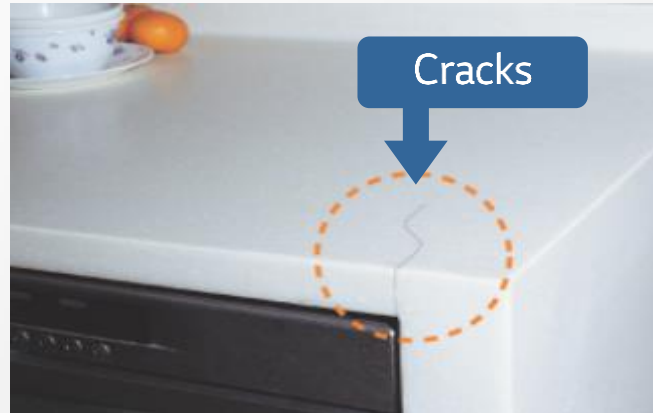


$\Delta E : 9.9$

Mixed product claims

One year after Installation (Goyang city, Korea)

■ HI-MACS® vs Mixed Product



Product Specification

Product	HI-MACS®	Mixed Products
Main Component	- Approx. 40% MMA + PMMA	- Approx. 35% UPE + 5% MMA
Hygiene	- Eco-Friendly proven Certificate (NSF) - Harmless to Human body	- No proven Data - Harmful dregs like Styrene Monomer possibly remain
Strength	- Excellent - Flexural Strength: 6.643 Kg/m ²	- Subject to be broken or damaged by impact - Flexural Strength: 3.247 Kg/m ²
Hardness	- Excellent - Barcol hardness: 61	- Subject to be scratched - Barcol hardness: 50
Discoloration in natural weather condition (in 375days)	- no visible change - ΔE : 0.62	- Subject to be yellowish - ΔE : 16.91
Discoloration by heat (1 hour in 170°C oven)	- Low Discoloration - ΔE : 1.61	- Subject to be yellowish - ΔE : 22.87
Fire Resistance	- Classified as B1	- No classification data - Estimated to be classified as B2
Thermoforming	- Suitable	- No Recommended