Substance of Staron®

staron Solid Surfaces

SN-303-2014

Staron® composition is listed on the following table.

	Content (%)	Remarks
Acrylic Polymer	40 ~ 45%	Poly Methyl Methacrylate
Filler	55 ~ 60%	Aluminum Tri hydroxide
Others	-	Pigment, Additives
Total	100%	

※ The information contained in the table above is intended to be for general reference purpose only, which may vary depending on color.

All raw materials of Staron® manufacturing are inspected by both internal/external examining bodies RoHS (Restriction of Hazardous Substances) and NSF (National Sanitation Foundation) ensuring that it meets the environmental standards required and the most restrictive "food zone" standards for all types of food set by the NSF under the NSF/ANSI STANDARD 51, meaning that Staron® is a safe material and can come in direct contact with food. Staron® also has a very low VOC (Volatile Organic Compound) content and has achieved Greenguard and Greenguard Children & Schools certificate in US and the Heath Building certificate in Korea, both of which require a very strict indoor air purification policy.

Performance Properties – American Standard

staron Solid Surfaces

SN-101-2014

TEMPEST®

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PROPERTIES	TYPICAL RESULTS	TEST PROCEDURE
Tensile strength	3,500 psi	ASTM D 638
Tensile modulus	786,000 psi	ASTM D 638
Flexural strength	6,500 psi	ASTM D 790
Flexural modulus	950,000 psi	ASTM D 790
Elongation	0.5%	ASTM D 638
Hardness	88 Rockwell “M” Scale 54 Barcol Impressor	ASTM D 785 ASTM D 2583
Thermal expansion	2.3 x 10-5 in/in F˚ 3.6 x 10-5 m/m °C	ASTM D 696
Gloss (60 Gardner)	Between 10 - 75	NEMA LD-3
Color stability	Pass	NEMA LD-3
Stain resistance	Pass	ANSI Z 124
Cleanability & Wear	Pass	ANSI Z 124
Boiling water surface resistance	No effect	NEMA LD-3
High temperature resistance	No effect	NEMA LD-3
IZOD Impact resistance (notched)	0.28 ft.lbf/in	ASTM D 256
Ball drop 1/2” (12.3 mm) sheet	1/2 lb ball No failure, 93+	NEMA LD-3
Fungi and Bacterial resistance	No growth	ASTM G 21, G22
Specific gravity	1.6	ASTM D 792
Water absorption	0.04%, (1/2”, 24hrs)	ASTM D 570
Flammability	Class A / Class 1	ASTM E 84 / UBC 8-1
Food Equipment Materials	Approved	NSF/ANSI 51 (Food Zone)

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