



INTRODUCTION

Elenite is a next-generation solid surface co-developed by LCI and Meganite, a Taiwanese solid surface manufacturer. Building upon the proven quality 100% acrylic solid surfaces, Elenite features a new recycled resin system engineered to deliver a new design language and superior carbon credentials.

This advanced composite is formulated with a blend of natural waste materials, recycled and virgin acrylic resins, fire retardants, and pigments. Elenite contains no unsaturated polyester, epoxy, or other non-acrylic resin systems - ensuring the durability, reparability, and consistent quality expected from solid surfaces.

- 01 >25% CO₂ reduction compared to standard solid surface.
- 02 Recycled content a minimum of 35%. This is equivalent to recycling 683 PET plastic bottles per square meter.
- 03 The carbon emission comparison is based on Meganite's Life Cycle Analysis (LCA) reports and in-house calculations using recognized CO₂ emission models. All calculations were conducted and verified by personnel certified under ISO 14067, the international standard that defines the principles and requirements for quantifying and communicating the carbon footprint of products.



MATERIAL PROPERTIES

PHYSICAL	Density ASTM D-792	1.7
	Water Absorption (24 hours) ASTM D-570	0.16%
	Hardness (Rockwell) ASTM D-785	90
	Weight per square meter	20.4 kg
MECHANICAL	Flexural Modulus ASTM D-790	1,200,000 PSI
	Flexural Strength ASTM D-790	6,500 PSI
	Tensile Modulus ASTM D-638	1,500,000 PSI
	Tensile Strength ASTM D-638	3,000 PSI
SURFACE	Consistency of Colour ISFA SST 2.1-00	Pass
	Flatness of Sheet ISFA SST 4.1-00	Pass
	Visual Defects ISFA SST 5.1-00	Pass
	Stain Resistance ASNI 124.6	Pass
	Fungi Resistance ASTM G21	1

FIRE PERFORMANCE

EUROPE	Ignitability, heat release, smoke production, burning droplets EN 13501-1	B-s1-d0
USA	Flammability Test ASTM E84	Class 1/A
	Flame Spread ASTM E84	Class 1/A
	Smoke Development Density (SDI) ASTM E84	Class 1/A