

Plasticiet Karlite



Product Information

14-05-2026, V1.3

Product

A non-porous, semi-translucent solid surface board made from recycled polycarbonate and mineral pigments for interior, design and architecture.

Company Information

Plasticiet Productions B.V.
Voltaweg 3
2626 BD, Delft

www.plasticiet.com
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Available Colors

Quartz, Pomegranate, Jade, Sienna, Glacial, Chalk, Chestnut
Custom colors available on request.

Material Composition

Base: Polycarbonate (100% recycled)
Pigments: Various mineral pigments
Binders: None
Fillers: None

Physical Properties		
Property	Value	Notes
Material	Polycarbonate	
Finish	Matte	Satin available
Thickness	19mm	Roughly 1mm margin
Size	1060x1060mm	Roughly 10mm margin
Stiffness	High	
Scratch Resistance	High	
Moisture Absorption	Minimal	
UV Resistance	Good	Can be increased with UV coating
Density	1,20*10 ³	
Linear Expansion	0,64mm/10° C	
Max. Temperature	90°C	
Glass Transition	147°C	
Thermal Conductivity	0,2 W/m·K	
Flammability Rating	HB	Uncertified (pending B-s1,d0)
Recycled Content	99,9%	

Chemical Stability

Chemical	Resistance	Notes
Water	Good	
Hydrocarbon Solvents	Poor	Hexane, Toluene, Xylene etc.
Ketone Solvents	Very Poor	Acetone, MEK, Thinner etc.
Alcohols	Good	(M)ethanol, Isopropanol etc.
Chlorinated Solvents	Very Poor	Methylene Chloride, chloroform etc.
Detergents	Good	Use mild detergents only.
Oil And Grease	Good	Stable under typical use.

Cleaning Recommendation:

Use mild soap and water.

Refrain from using abrasive cleaning agents or tools.

Use a soft, clean cloth (cotton or microfiber).

Fabrication Guidelines

Technique

Information

Notes

Cutting:

Aluminium Blade
Wood Blade
Low Rotary Speed

Move fluently over the table saw.

Joining:

Epoxy Glue
Cyanoacrylate Glue
UV-Glue

Remove dust and grease prior to gluing.

Thermoforming:

120°C

Minimal temperature for bending.

Sanding:

150 up to polish

Safety:

Respirator, eye protection, ear protection.

Karlite Sheets can be cut, milled, drilled, threaded, countersunk, chamfered, waterjet cut and cnc milled. Use sharp tools for the best and safest results. Using dull tools may result in the material melting or even warping. Always predrill holes before screwing. To prevent melting, we advise to use high rotary speeds on powertools and to move swiftly, except when drilling. Cooling agents can be used.

Karlite sheets can be coated on one side, the other side can be either sanded or coated to the desired finish.

Storage And Handling

Store flat, indoors and away from direct sunlight and moisture.

Recommended temperature for storage 0-40°C.

Avoid stacking more than 10 sheets without straps.

Safety And Environmental Information

VOC emissions are not tested and expected low.

Karlite sheets and cutoffs are fully recyclable.

Offcuts can be returned to manufacturer, please get in touch with Plasticiet.

Disclaimer

Samples provided by Plasticiet are designed to give a material impression. To give the best possible representation of the final product, the front surface of the samples are treated with a scratch-resistant coating, and the edges have been chamfered. Sheets are available with or without coating. Karlite absorbs light from all sides, which means small samples can appear lighter than a full-sized sheet. For a better visual of the nuances in larger surfaces, we recommend acquiring A5 samples.

We strive to produce the best quality material possible. Working with recycled plastics means there's a slight chance of unfiltered impurities appearing in the final product. Additionally, working with mineral pigments may result in minimal tonal differences in color. These characteristics are nature to recycled, handmade materials and contribute to their unique aesthetic. We can provide sheets matched by batch for consistency.

Plasticiet Karlite sheets come with uncut edges and need to be cut square before working.

We imply that you use this Product Information as guideline only because it may not completely represent our product.

The above values are based on internal formulation data and similar industry materials. Actual properties may vary. Independent laboratory testing is recommended for certified performance results. All data are indicative and subject to change upon official testing.

No rights can be derived from this information.