

Novacryl® Series Photopolymer

Accessible Room Identification Signage

Overview: Novacryl® Series photopolymer is the world's leading substrate for fabricating accessible room identification and Braille signage. Novacryl® offers a variety of options for specifying and fabricating signage to meet the design needs of any environment. Novacryl® is manufactured in the United States by Nova Polymers, Inc and sold throughout the world. There are currently six types of Novacryl® Photopolymer: Novacryl® PT™ Series, Novacryl® ECR™ Series, Novacryl® LPT™ Series, Novacryl® EX™ Series, Novacryl® YA™ Series and Novacryl® Permaglow™ Series.

How The Process Work: There are 5 steps to producing a photopolymer sign.

HOW TO MAKE PHOTOPOLYMER SIGNS

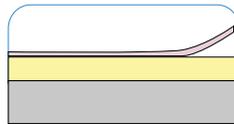
5 STEP

process of making
photopolymer signage:

5 Easy Steps

STEP 1

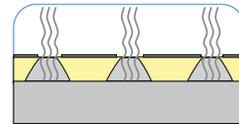
Contact With Film Negative



The first step is to place a high density film negative on top of the photopolymer sheet.

STEP 2

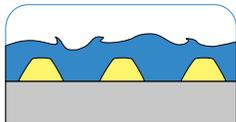
Exposure with UV Light



There is a bank of UV lamps that shine down and pass through the clear areas of the film negative and expose the photopolymer material.

STEP 3

Wash in Plain Tap Water

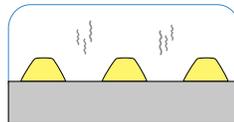


The unexposed photopolymer gets washed away during the washout process in plain tap water.

The photopolymer effluent is 100% biodegradable and goes right down the drain. You are left with the exposed raised images.

STEP 4

Drying



Dry the moisture off the material. The photopolymer and the base PETG does not absorb moisture during the washout - drying is to evaporate any standing moisture left on the sheet.

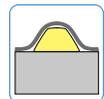
STEP 5

Post Exposure



Post exposure is a second exposure to fully cure, harden and activate the photopolymer. This is the final step in processing photopolymer.

Note: This shows how the Braille will appear after the top coating.



Top Coating: After the photopolymer is processed and the tactile images and Braille are created, the material gets finished and decorated. A 2mil thick Acrylic Polyurethane membrane is applied to the surface of the photopolymer as the final step. The top coating has a UV protectant in it to guard against UV degradation while providing an anti-graffiti finish.

Nova Polymers, Inc.

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NP Nova Polymers

Novacryl® Series Photopolymer

Innovative solutions for accessible signage

Environmental Attributes: Novacryl® PT™ and ECR™ Series are made with a minimum of 40% post industrial recycled content. Novacryl® ECR™ uses a base substrate that is not only recycled but contains GreenGuard certified ecoresin. All Novacryl® is suitable for disposal in all waste disposal systems. The Photopolymer effluent is 100% Biodegradable and get washed down the drain.



Novacryl® PT™

Novacryl® PT™ series photopolymer is the most environmentally responsible and versatile line of signage photopolymers ever introduced. Features include a unique,

clear PETG sign base that contains a minimum of 40% post-industrial recycled content which is resilient and shatterproof.



Novacryl® ECR™

Novacryl® ECR™, offered exclusively by Nova Polymers, addresses the need for more creative sign solutions by the architectural design and sign fabrication industry. Nova Polymers

has partnered with 3form, to develop one of the most imaginative product lines ever introduced to the architectural signage industry.



Novacryl® LP™

Novacryl® LP™ combines an interior grade photopolymer with laminates manufactured by Wilsonart, Pionite or Formica allowing for an unlimited palette selection offered exclusively

by Nova Polymers. This broadly expands the selection now available for ADA-compliant sign fabrication.



Novacryl® EX™

Novacryl® Ex™ photopolymer is the industry's first pure, exterior-grade photopolymer resin. Its unique synthetic rubber monomers are exterior rated immediately after initial exposure

to UV light. Novacryl® Ex™ resin has a 0% swell rate in moisture-saturated environments, preventing collapse.



Novacryl® - YA™

YA125™ consists of the same moisture-resistant, nylon-based photopolymer layer as found on Novacryl®. The clear adhesive layer allows for a brushed aluminum face

appearance. Its wide photo-latitude provides greater graphic detail. A new clear adhesive allows the natural aluminum appearance to show through.



Novacryl® Permaglow™

Novacryl® Permaglow 150™, offered exclusively by Nova Polymers, is the ideal solution for safety and egress signage concerns, as well as environmental concerns about energy

savings and CO2 emissions. Novacryl® Permaglow 150™ absorbs ambient light during the day and provides photo-luminescent emergency guidance at night.

LEED Contributors:

MR Credit 4 - Recycled Content

EQ Credit 4.1 - Indoor Air Quality

ID Credit 1 - Innovation and Design Process

Visit ARCAT.com and search Novacryl® for more information.

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