



PHOTOPOLYMER
MANUFACTURING PROCESS
& PRODUCT PORTFOLIO

Novacryl® Designer Series Photopolymer

Novacryl® Photopolymer is the world's leading substrate for ADA Braille and Accessible Room Identification Signage. Novacryl® has the most diverse range of substrates available and allows for unlimited design while being environmentally responsible. Don't sacrifice your design to comply. Novacryl® allows your creativity to flow free and make your ideas possible.



EC Series

Novacryl® ECR™ addresses the need for more creative sign solutions by the architectural design and sign fabrication industry. We've partnered with 3form to develop this imaginative product line whose materials broadly expand the selection of colors, patterns, textures and finishes available for ADA-compliant sign fabrication. Clear photopolymer bonded to 3form's Varia™ can create signs as diverse as your imagination.



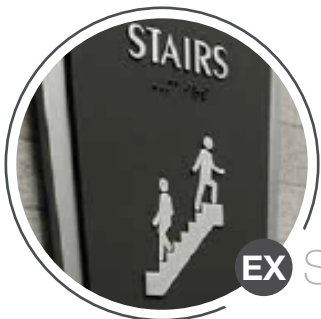
PT Series

Novacryl® PT™ series is the most versatile photopolymer material ever created for signage. This clear interior-grade PETG contains 40% post-industrial content, limiting the amount of landfill contributions, and is resilient/shatterproof. Your fabricating options with various thicknesses can be surface and/or subsurface painted or use printing of digital graphics.



LP Series

Novacryl® LP™ is all about choice for the architectural design and sign fabrication industry. Extruding clear photopolymer to the comprehensive offering of laminates made by leaders in the industry including Wilsonart, Formica, and Pionite, sign designers can choose from an array of wood grains, marbles and granites, plus hundreds of colors and patterns to complement any decor.



EX Series

Novacryl® EX™ is the industry's first pure, exterior-grade photopolymer. This exterior grade material takes the guessing out when specifying a material for high moisture/high humidity environments. Novacryl® EX™ is compatible with all exterior paints and requires no extended treatment.



PG Series

Novacryl® Permaglow 250™ is the ideal solution for safety and egress signage, as well as environmental concerns about energy savings and CO2 emissions. UL1994-listed photoluminescent photopolymer material absorbs ambient light during the day and provides photoluminescent emergency guidance at night. In the event of a power outage, the photoluminescent material instantly emits light without electrical power ensuring orderly egress to and inside stairwells and exits.



AL Series

Novacryl® AL™ series consists of the same interior grade material as our PT™ Series. This brushed aluminum-based photopolymer material can be installed in unregulated interior environments.

Photopolymer Product Information

Item #	Description	Sheet Size	Case Lot				
PT	CLEAR	PT-020M	.020" gloss sign base / .032" photopolymer layer	19" x 25"	10 Sheets		
		PT-040M	.040" non-glare sign base / .032" photopolymer layer	19" x 25"	10 Sheets		
		PT-060M (1/16")	.060" non-glare sign base / .032" photopolymer layer	19" x 25"	10 Sheets		
		PT-080M	.080" non-glare sign base / .032" photopolymer layer	19" x 25"	10 Sheets		
		PT-118M (1/8")	.118" non-glare sign base / .032" photopolymer layer (30" x 40" sheets available - 5 per case)	19" x 25"	5 Sheets		
		PT-190M (3/16")	.190" non-glare sign base / .032" photopolymer layer	19" x 25"	5 Sheets		
		PT-236M (1/4")	.236" non-glare sign base / .032" photopolymer layer (30" x 40" sheets available - 5 per case)	19" x 25"	5 Sheets		
		PT-375M	.375" gloss sign base / .032" photopolymer layer	19" x 25"	5 Sheets		
		BLACK	NEW	PT-060BLKM	.060" BLACK Series / .032" photopolymer layer	19" x 25"	10 Sheets
				PT-118BLKM	.118" BLACK Series / .032" photopolymer layer	19" x 25"	5 Sheets
EC	CLEAR	ECRFOSSILLEAF118M	Varia Fossil Leaf Large / .118" Gauge	19" x 24"	5 Sheets		
		ECRGINGKOTHATCH250M	Varia Ginko Thatch / .250" Gauge	19" x 24"	5 Sheets		
		ECRIONGREENTEA2060M	Varia Ion Green Tea 2 / .060" Gauge	19" x 24"	5 Sheets		
		ECRMARISEAMLESS060M	Varia Mari Seamless - .060" Gauge	19" x 24"	5 Sheets		
		ECRBANANAFIBERLT118M	Varia Banana Fiber Light / .118" Gauge	19" x 24"	5 Sheets		
		ECRBGRASSLITE118M	Varia Beargrass Light / .118" Gauge	19" x 24"	5 Sheets		
		ECRMEGACIRQUESIL118M	Varia Mega Cirque Silver / .118 Gauge	19" x 24"	5 Sheets		
		ECREIDERDOWN250M	Varia Eiderdown / .250 Gauge	19" x 24"	5 Sheets		
		ECRSOLORED118M	Varia Pure Red / .118" Gauge	19" x 24"	5 Sheets		
		ECRSOLOBLACK118M	Varia Black / .118: Gauge	19" x 24"	5 Sheets		
		ECRTIGERTHATCH375M	Varia Tiger Thatch / .375" Gauge	19" x 24"	5 Sheets		
		ECRLINEAIVORY118M	Varia Linea Ivory / .118" Gauge	19" x 24"	5 Sheets		
		ECRWALNUT118M	Varia Walnut / .118" Gauge	19" x 24"	5 Sheets		
		ECRHARVEST118M	Varia Harvest / .118" Gauge	19" x 24"	5 Sheets		
		ECRVIAAQUA250M	Varia Via Aqua / .250: Gauge	19" x 24"	5 Sheets		
		ECRHARVEST250M	Varia Harvest . .250" Gauge	19" x 24"	5 Sheets		
<i>(100+ 3form patterns also available)</i>							
LP	CLEAR	LPAMBERMAPLE1924M	Formica Amber Maple / .032" Photopolymer	19" x 24"	5 Sheets		
		LPATLANTISBLUE1924M	Wilsonart Atlantis Blue / .032" Photopolymer	19" x 24"	5 Sheets		
		LPSUNSETSUEDE1924M	Wilsonart Sunset Suede / .032" Photopolymer	19" x 24"	5 Sheets		
		LPSTELLAR1924M	Formica Stellar / .032" Photopolymer	19" x 24"	5 Sheets		
<i>(+100s of standard patterned laminate substrates from trusted names like Formica, Pionite and Wilsonart also available)</i>							
EX	CLEAR	NOVACRYL-EX2030	Exterior Aluminum NovAcryl	20" x 30"	10 Sheets		
		NOVACRYL-EX2226	.009 STEEL / .032" Exterior Photopolymer	22" x 26"	10 Sheets		
		XP Cleaner	For processing up to 50 sheets of NovEx	32 oz. Bottle			
AL	CLEAR	125-ALUM	.017 Aluminum / .032" Interior Photopolymer	19" x 25"	10 Sheets		
		PERMAGLOW250	.047" photo-luminescent PVC / .032" Interior Photopolymer	19" x 23.5"	10 Sheets		
PG	CLEAR						

Photopolymer Room Layout



A INKSTAR FILM SYSTEM WITH EPSON PRINTER

Making Film Negatives With The Correct Density

Designed specifically to meet the unique needs of sign and screen printers.

B ORBITAL X PHOTOPOLYMER PROCESSOR

Making Signs

All-in-one system that processes water-washable photopolymer sign material.

C SHEAR

Cutting to Size

D NP HS-1276 HOT STAMP DEVICE

Adding Color to Raised Characters

Create stunning graphics: instantly apply color and metallic effects to painted or unpainted raised ADA-compliant photopolymer graphics.

E SINK

Sink is required for rinsing processed photopolymer sheets, cleaning brushes, etc. Hot/Cold water inlet and outlet required.

Photopolymer Manufacturing Products

PHOTOPOLYMER EQUIPMENT

Item #	Product	Description
WFM	Workflow Manager	Workflow Manager Software Workflow Manager ADA Package, File Creation
INKSTAR SYSTEM	InkStar System - RIP and new Epson Printer	Epson Stylus Pro T3270 Epson Stylus Pro Printer Configured with AccuRIP Unit Size 54"x27"x48"
ORBITAL X	Orbital X	24" x 30" all-in-one processing system for ADA signage. 220V Single Phase Current Unit Size 40"L x 42"Wx48"H
SHEAR 25"	Shear	Finishing Shear Precision Shear with Guillotine Design Unit Size 26"L x 32"W x 12.5"H
HS-1276	Hot Stamp Machine	Nova Polymers HS Series Hot Stamp Unit Size 26"L x 23"W x 36"H Applying Color to Raised Graphics



INKS



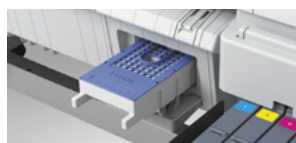
DYESTAR 7900	Photo & Matte Black Ink	350ML per Cartridge
DYESTAR 7900	Clear Inks	350ML per Cartridge
T-3270	Clear Set 4 Inks	700ML per Set
T-3270	Photo Black Ink	700ML per Cartridge

FILM



INKSTAR424100	Inkstar Film 24"X100'	Price per Roll
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MAINTENANCE TANKS



12C890191	Epson 7900	Maintenance Tank
T619300	Epson T-3270	Maintenance Tank

TAPES



Adhesive Tape Systems for Sign & Display Markets:

Application Tapes | Transfer Tapes | Industrial Tapes |
Foam Tapes | Carpet & Clothes Tapes | UHB Tapes



How to Make Photopolymer Signs

5 STEP process of making photopolymer signage

STEP 1

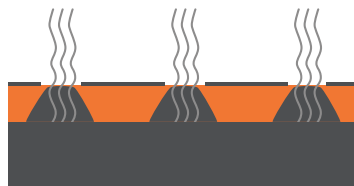
Contact With Film Negative



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

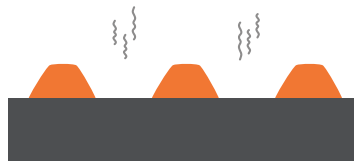
Wash in Plain Tap Water



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

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.

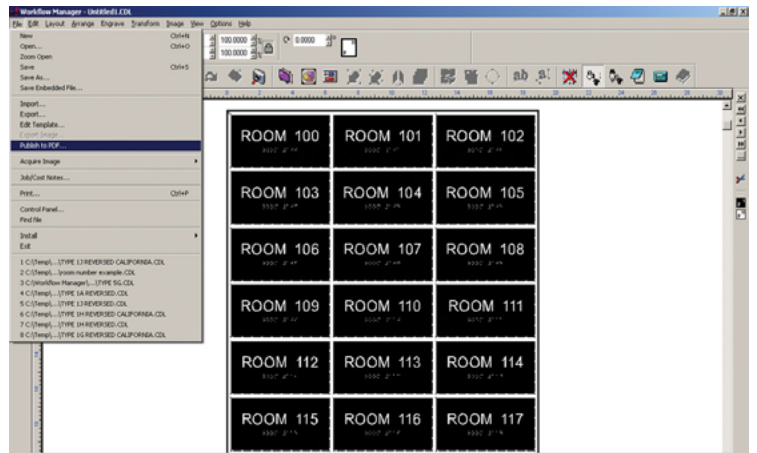
Software, Equipment and On-Site Training

Congratulations on making the decision to fabricate ADA/Accessible compliant signage using Novacryl® photopolymer in your facility. Welcome to the Nova family.

SOFTWARE INSTALLATION:

Completed prior to our arrival to ensure the training time on-site is maximized.

- Install Workflow Manager (PC-Based application).
- Nova Polymers holds a training webinar with your operator(s) and our programming team. During the training session, we will walk through the functionality of the software and create films and negatives that will be used for future installation training.
- Install our RIP program for the InkStar film negatives solution to ensure all settings are correct and the produced film is top quality.

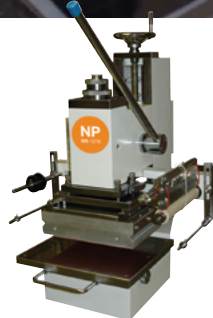


EQUIPMENT INSTALLATION:

- Ensure the electrical and water connections are made to the equipment received.
- Items arrive within 3 days, shipping from our Ohio warehouse.

ON-SITE INSTALLATION AND TRAINING:

- Review workflow manager software and assist with film negatives.
- Review all steps with Orbital Processor and make your first ADA-compliant sign from Novacryl® photopolymer.
- Paint and Hot Stamp signs. Review process to ensure adequate coating.





Nova Polymers is the global leader in the development of materials and processing equipment for the fabrication of Accessible and ADA compliant signage. With a focus on education and the continued development of innovative materials that meet international accessibility guidelines, Nova Polymers continues to lead the sign industry and help people with visual disabilities navigate the built environment.

ADA Compliant. **PERIOD**®

