

# EG0290 NPT GEL CLEAR



EG0290 NPT Gel Clear is formulated as a plastisol for printing on 100% Cotton fabrics. This product has excellent clarity and gloss when printing as a 3D type gel.

## Highlights

- NPT Gel Clear gives flowing rounded edges with no appearance of screen marks.
- NPT Gel Clear can be thickened with M00004 Liquid Thickener to produce the more traditional Gel with sharper edges.
- Short body and very low wet tack for easy printing.
- Fast shearing action means higher press speeds.
- Can be tinted with up to 30% Color Boosters to make Gel Colors.
- High gloss when cured under standard conditions.

## Printing Tips

- Print EG0290 directly onto substrates or over an underlay. It is normally printed through mesh ranges from 86-110 t/in. (34-43 t/cm.). Recommend 60 or 70 Durometer squeegee and thick film emulsion for printing a 3D image.
- If Gel does not appear as clear as desired, try adjusting dwell time. More dwell usually adds to clarity, less dwell usually prevents the gel "dome" from "falling".
- Many printers find it helpful to cure Gel clear 20-25 degrees higher than normal to get the most clarity and gloss. (instead of 320°F, consider going as high as 345°F). However, It is advised to adjust dwell time before increasing heat. Higher temperatures may result in yellowing of the product.

## Compliance

- Internationally compliant
- Non-phthalate
- <https://www.avientspecialtyinks.com/services/compliance-support>

## Precautions

- The information above is given in good faith and does not release you from testing inks and fabrics to confirm suitability of substrate and application process to meet your customer standards and specifications.

## Recommended Parameters

 <p><b>Fabric Types</b> Cotton</p>	 <p><b>Flash &amp; Cure</b> Flash: 140-150°F on pre-heated pallets Cure: 320°F</p>	 <p><b>Clean Up</b> Unused ink will need to be disposed of responsibly. Standard plastisol cleaners, press wash, or ink degradant</p>
 <p><b>Mesh</b> Counts: 86-110 Tension: 18n-25n/cm3</p>	 <p><b>Pigment Loading</b> C3 Color boosters</p>	 <p><b>Health &amp; Safety</b> Find SDS information here: <a href="http://www.avient.com/resources/safety-data-sheets">www.avient.com/resources/safety-data-sheets</a> or contact your local CSR</p>
 <p><b>Squeegee</b> 60, 70 Profile: Square Stroke: 1+ Angle: 10-20%</p>	 <p><b>Additives</b> M00004 Liquid Thickener</p>	<p>2021, Avient Corporation. Avient makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Avient makes no warranties or guarantees respecting suitability of either Avient's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. AVIENT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.</p>
 <p><b>Stencil</b> Standard Emulsion Off Contact: 1/16" (2mm) or greater Emulsion Over Mesh: 15-20%</p>	 <p><b>Storage</b> 65 -95° F (18 -35° C) Avoid direct sunlight</p>	



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