

[Learn More](#)

Manufacturer:
Covestro

Product Name:
Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

Manufacturer Part Number:
COV-751-012

► Click here for more details on the Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

Cablelite®
Optical Fiber Inks



Product Data

Cablelite® 751 Inks

Product Description

Cablelite® 751 Series UV-curable inks are specially formulated to color code optical fibers. These inks are designed to offer maximum processing line speeds compared to other UV-curable inks, without compromising final ink performance.

Color

Clear
Orange
Slate
White
Red
Black
Yellow
Rose
Aqua
Blue
Green
Violet
Brown

Product Code

| |
|---------|
| 751-000 |
| 751-002 |
| 751-005 |
| 751-006 |
| 751-007 |
| 751-008 |
| 751-009 |
| 751-011 |
| 751-012 |
| 751-017 |
| 751-018 |
| 751-019 |
| 751-020 |

Product Benefits

Fast Cure: Cablelite® 751 Series inks have demonstrated up to a 50% increase in line speed, without compromising cure results, compared to other UV curable inks. When cured using high power microwave bulbs, line speeds in excess of 1800 m/min have been demonstrated.

Narrow Viscosity Range: All colors within the Cablelite® 751 Series are comparable in viscosity. This allows for no or little process adjustments required between colors. The overall low viscosity allows these inks to be processed successfully on many different types of coloring lines.

EIA-359-A Munsell Color Compliant: Film thickness between 3 to 5 microns produces glossy, vibrant colors that satisfy the EIA-359-A color specification. Cablelite® 751 Series inks provide the required opacity to distinguish between colors in low light conditions without sacrificing LID performance.

Colors

| | |
|-------------|---------|
| Lime | 751-013 |
| Tan | 751-014 |
| Olive | 751-015 |
| Magenta | 751-016 |
| Cadet | 751-021 |
| Turmeric | 751-022 |
| Dark Green | 751-024 |
| Dark Violet | 751-025 |

Supplemental Product Code

Contact the professionals at Fiber Optic Center for a quote or to get more details.

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are subject to change without notice.
FOC last update 1/22/2026.



Learn More



Manufacturer:

Covestro

Product Name:

Covestro Cableelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

Manufacturer Part Number:

COV-751-012

► Click here for more details on the Covestro Cableelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

Physical Data

| | |
|---|----------------------|
| % Nonvolatile | 99% |
| Flashpoint Range | >200°F (93°C) |
| Viscosity (25°C) Brookfield Model DV-III Spindle 52 @ 30rpm | 1,700 – 2,500 mPa·s* |

Typical Mechanical Properties of Cured Clear Ink Film

| | |
|------------------------------|---------------|
| Modulus (at 2.5% elongation) | 1450-1650 MPa |
| Elongation | 2-4% |
| Tensile strength | 25-30 MPa |

Cableelite® 751 Series Color Specifications

Cableelite® 751 Series inks are designed to meet Munsell color values as specified by the EIA-359-A standard

| Product Color | Product Code No. | L | a | b |
|---------------|------------------|---------------|-----------------|-----------------|
| Clear | 751-000 | NA | NA | NA |
| Orange | 751-002 | 58.50 - 64.10 | 43.80 - 49.40 | 42.90 - 48.50 |
| Slate | 751-005 | 49.16 - 54.74 | -2.03 - -0.89 | -4.89 - -2.25 |
| White | 751-006 | 89.48 - 94.94 | -3.49 - -1.19 | -0.87 - 4.23 |
| Red | 751-007 | 33.23 - 38.83 | 30.03 - 35.63 | 11.48 - 16.04 |
| Black | 751-008 | 25.85 - 26.85 | -0.48 - 0.52 | -0.98 - 0.02 |
| Yellow | 751-009 | 74.63 - 79.43 | 1.51 - 7.11 | 58.18 - 63.78 |
| Rose | 751-011 | 63.97 - 68.47 | 26.99 - 32.59 | 7.10 - 11.60 |
| Aqua | 751-012 | 60.50 - 65.00 | -28.41 - -22.81 | -19.18 - -14.68 |
| Lime | 751-013 | 75.25 - 80.85 | -37.34 - -31.74 | 36.98 - 42.58 |
| Tan | 751-014 | 65.41 - 71.01 | 0.60 - 6.20 | 4.65 - 10.25 |
| Olive | 751-015 | 55.32 - 60.92 | -9.82 - -4.22 | 35.25 - 40.85 |
| Magenta | 751-016 | 53.87 - 59.47 | 22.25 - 27.85 | -5.74 - -0.14 |
| Blue | 751-017 | 35.27 - 40.87 | -6.54 - -0.94 | -37.72 - -32.12 |
| Green | 751-018 | 52.04 - 57.64 | -53.37 - -47.77 | 22.63 - 28.23 |
| Violet | 751-019 | 50.27 - 55.87 | 15.00 - 20.60 | -31.72 - -26.12 |
| Brown | 751-020 | 28.69 - 34.29 | 6.17 - 11.77 | 2.76 - 8.36 |
| Cadet | 751-021 | TBD | TBD | TBD |
| Turmeric | 751-022 | TBD | TBD | TBD |
| Dark Green | 751-024 | TBD | TBD | TBD |
| Dark Violet | 751-025 | TBD | TBD | TBD |

The manner in which you use our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products to determine suitability for your processing and intended uses. Your analysis must at least include testing to determine suitability from a technical, health, safety, and environmental and regulatory standpoint. Such testing has not necessarily been done by Covestro, and Covestro has not obtained any approvals or licenses for a particular use or application of the product, unless explicitly stated otherwise.

Any samples provided by Covestro are for testing purposes only and not for commercial use.

Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request.

All information and including technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed by you that you assume and hereby expressly release indemnify us and hold us harmless from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

Updated 8-March-2022

Contact the professionals at Fiber Optic Center for a quote or to get more details.

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

*Product specifications and data are subject to change without notice.
FOC last update 1/22/2026.*



Learn More



Manufacturer:
Covestro

Product Name:
Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

Manufacturer Part Number:
COV-751-012

► Click here for more details on the Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

Cablelite® 751 Inks



Test Methods

Detailed test methods may be obtained through your Covestro sales representative.

Filtration

Cablelite® Inks and Matrix Materials are manufactured using fine filtration techniques designed to minimize particulate matter and to ensure high strength and uniform product performance.

Storage Conditions

Cablelite® matrix materials should be stored in their original containers at temperatures between 15° and 30°C. The bottles that are used for these are UV opaque and allow for air to diffuse through the plastic which prevents premature gelation.

Conditioning of Inks Prior to Use

All UV curable inks incur pigment settling over time. It is recommended that Cablelite® 751 Inks be rolled at 8 rpm in their original bottles for a minimum of 4 hours prior to use. Re-rolling of the bottles is suggested, for 4 hours at 8 rpm, if a bottle is not consumed within 24 hours.

Shelf Life

Cablelite® matrix materials have a shelf life of 24 months from the date of manufacture, provided recommended storage conditions are properly maintained.

Safety Information

This product is formulated with multifunctional acrylates which may cause skin and eye irritation and/or skin sensitization. Safety data sheets for each product are available from your Covestro sales representative. All safety and handling recommendations should be followed carefully.

Conversions

$N = g \cdot f \times 9.807 \times 10^{-3}$ $kg \cdot mm^{-2} = MPa \times 0.102$
psi = MPa $\times 145$ $MPa \cdot s = cps$

Contact the professionals at Fiber Optic Center for a quote or to get more details.

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are subject to change without notice.
FOC last update 1/22/2026.



Learn More



Manufacturer:
Covestro

Product Name:
Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

Manufacturer Part Number:
COV-751-012

► Click here for more details on the Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

Cablelite® 751 Inks

Explanation of Graphs for Cablelite® 751 Inks



Viscosity vs. Temperature for clear base: This graph represents the temperature/ viscosity relationship for the Cablelite 751 clear base used to produce the colored inks for temperatures between 25°C and 50°C.

Viscosity vs. Temperature for Cablelite 751, Production Batches: This graph represents the temperature/ viscosity relationship for 4 colors within the Cablelite® 751 ink series. It should be noted that the tight range in viscosity for all of the colors prevents the need to change ink processing temperature when changing from color to color.

%RAU vs. Dosage for LTS and Cablelite 751: This graph illustrates the comparison of Cablelite® 751 versus Cablelite® LTS for surface cure via the FTIR method. The values for Cablelite® 751 are slightly lower than Cablelite® LTS. Initially, this information can be deceiving, however this is a comparison of two different ink compositions and should be compared as such. To fully understand the amount of cure that can be achieved, you must investigate the % RAU values on a highly cured ink sample. See the graph labeled "Ink Bases: FTIR Cure Behavior, LTS and Cablelite® 751" for a clearer illustration of this concept.

Ink Bases: FTIR Cure Behavior, LTS and Cablelite® 751: This graph represents the percent maximum cure based on FTIR analysis that can be achieved for these two different inks at very high doses of UV energy. It is estimated that on a fiber coloring line, UV curable inks receive between .05 and 50 J/cm² dose depending on the speed of the colored fiber passing through a UV lamp. The conclusion can be drawn from this graph that Cablelite® 751 inks are reaching their maximum cure potential much faster than Cablelite® LTS inks. It is our experience that in producing optical fiber ribbons and fiber for loose tube cable, Cablelite® 751 can be processed at higher line speeds and achieve similar or improved physical properties compared to Cablelite® LTS inks.

Ink Bases: Dose – Modulus, LTS and Cablelite® 751: The Cablelite® 751 is a higher modulus (harder) ink compared to Cablelite® LTS ink. Similar to the previous graph, the Cablelite® 751 inks reach their ultimate modulus much quicker than Cablelite® LTS at UV doses that are relevant in optical fiber color coding. The higher modulus nature of Cablelite® 751 inks have a positive effect on the breakout and peelability of optical fiber ribbons produced with Cablelite® 751 inks.

Clear Base DMA: The DMA graph of the Cablelite® 751 clear base indicates a maximum tan delta (Tg approximation) of 87°C. This confirms the higher degree of hardness compared to Cablelite® LTS with a tan delta of approximately 63°C.

Contact the professionals at Fiber Optic Center for a quote or to get more details.

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are subject to change without notice.
FOC last update 1/22/2026.



Learn More



Manufacturer:
Covestro

Product Name:
Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

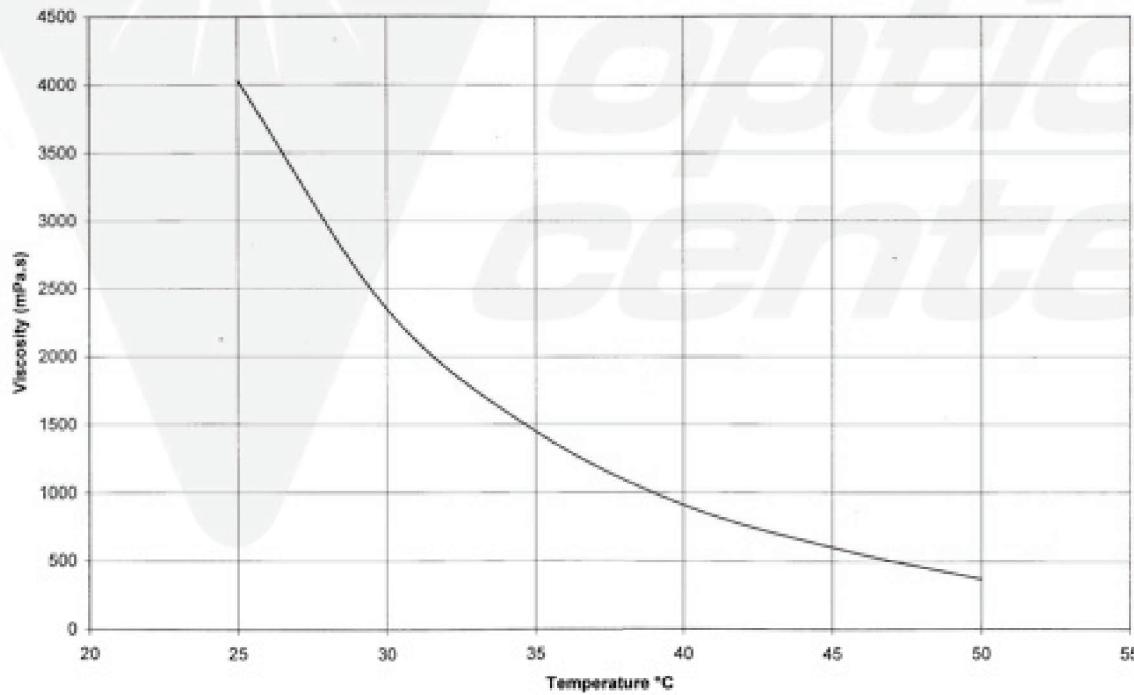
Manufacturer Part Number:
COV-751-012

► Click here for more details on the Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

Cablelite® 751 Inks



Cablelite® 751 Clear Base Temperature Viscosity Curve (B#00J11874)



Contact the professionals at Fiber Optic Center for a quote or to get more details.

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are subject to change without notice.
FOC last update 1/22/2026.



Learn More



Manufacturer:
Covestro

Product Name:
Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

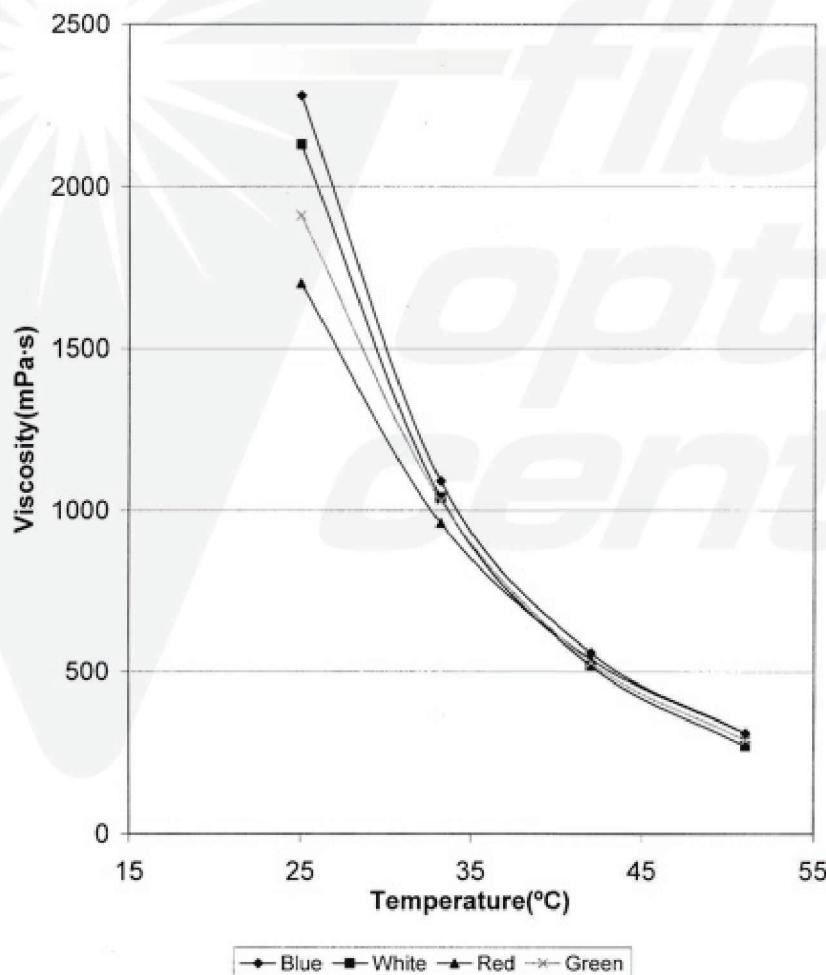
Manufacturer Part Number:
COV-751-012

► Click here for more details on the Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

Cablelite® 751 Inks



Viscosity vs. Temperature
Cablelite® 751, Production Batches



Contact the professionals at Fiber Optic Center for a quote or to get more details.

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are subject to change without notice.
FOC last update 1/22/2026.



Learn More



Manufacturer:
Covestro

Product Name:
Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

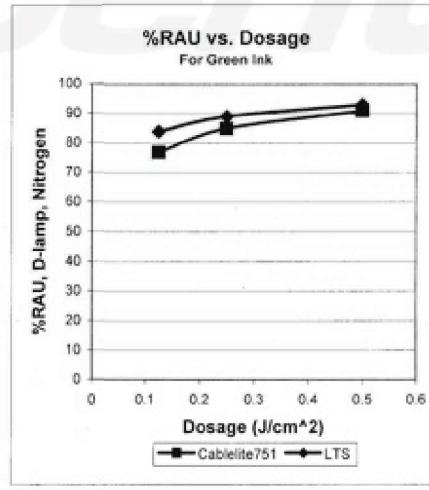
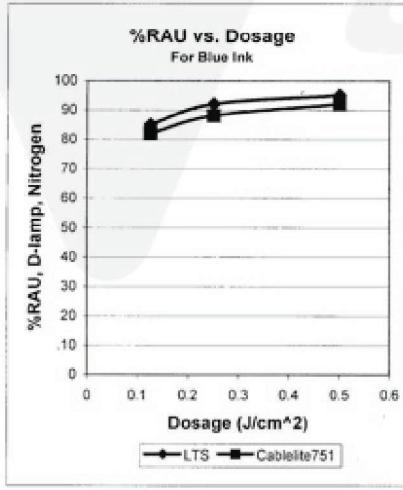
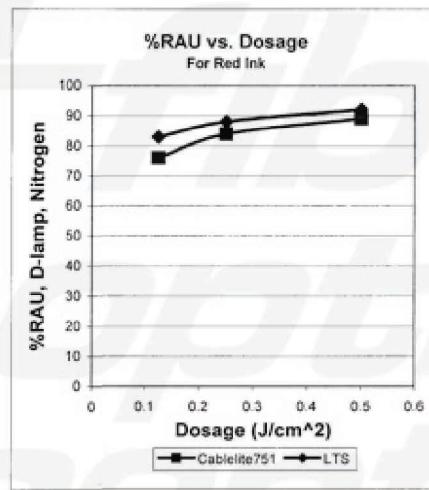
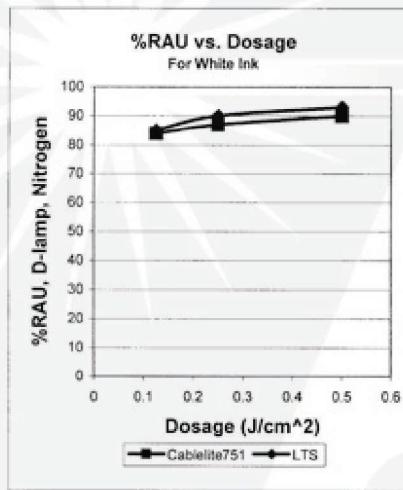
Manufacturer Part Number:
COV-751-012

► Click here for more details on the Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

Cablelite® 751 Inks



%RAU vs. Dosage
for Cablelite® LTS and 751 Inks



Contact the professionals at Fiber Optic Center for a quote or to get more details.

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are subject to change without notice.
FOC last update 1/22/2026.



Learn More



Manufacturer:
Covestro

Product Name:
Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

Manufacturer Part Number:
COV-751-012

► Click here for more details on the Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

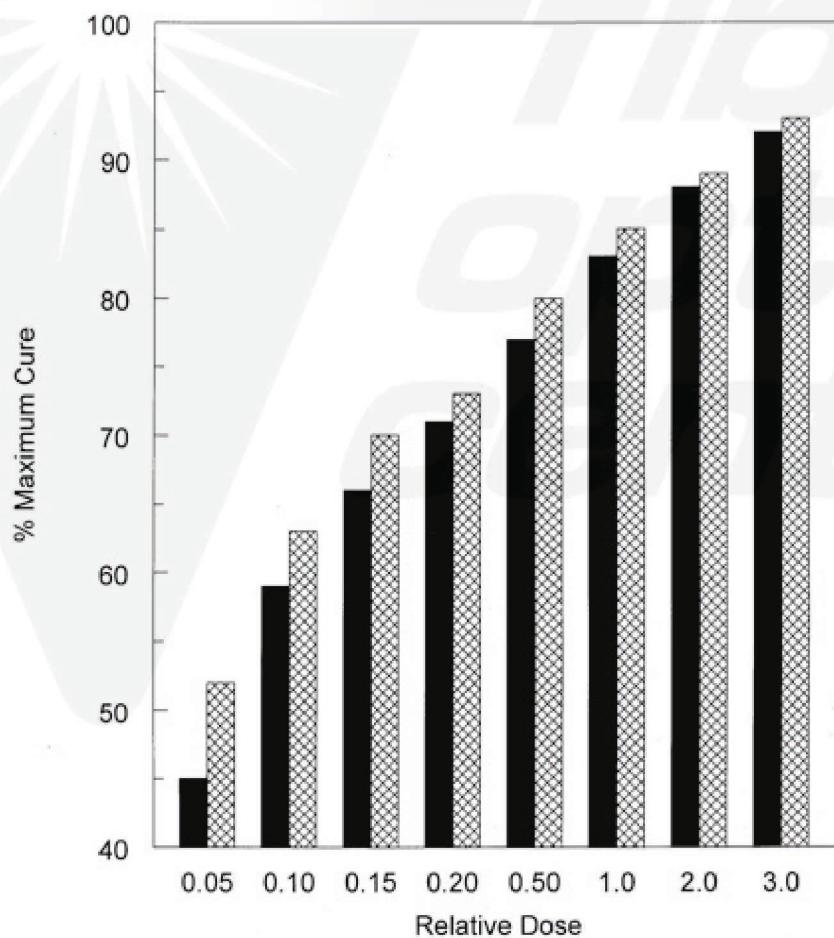
Cablelite® 751 Inks



Ink Bases: FTIR Cure Behavior

LTS and Cablelite 751

■ LTS ■ "751"



Contact the professionals at Fiber Optic Center for a quote or to get more details.

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are subject to change without notice.
FOC last update 1/22/2026.



Learn More



Manufacturer:
Covestro

Product Name:
Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

Manufacturer Part Number:
COV-751-012

► Click here for more details on the Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

Cablelite® 751 Inks

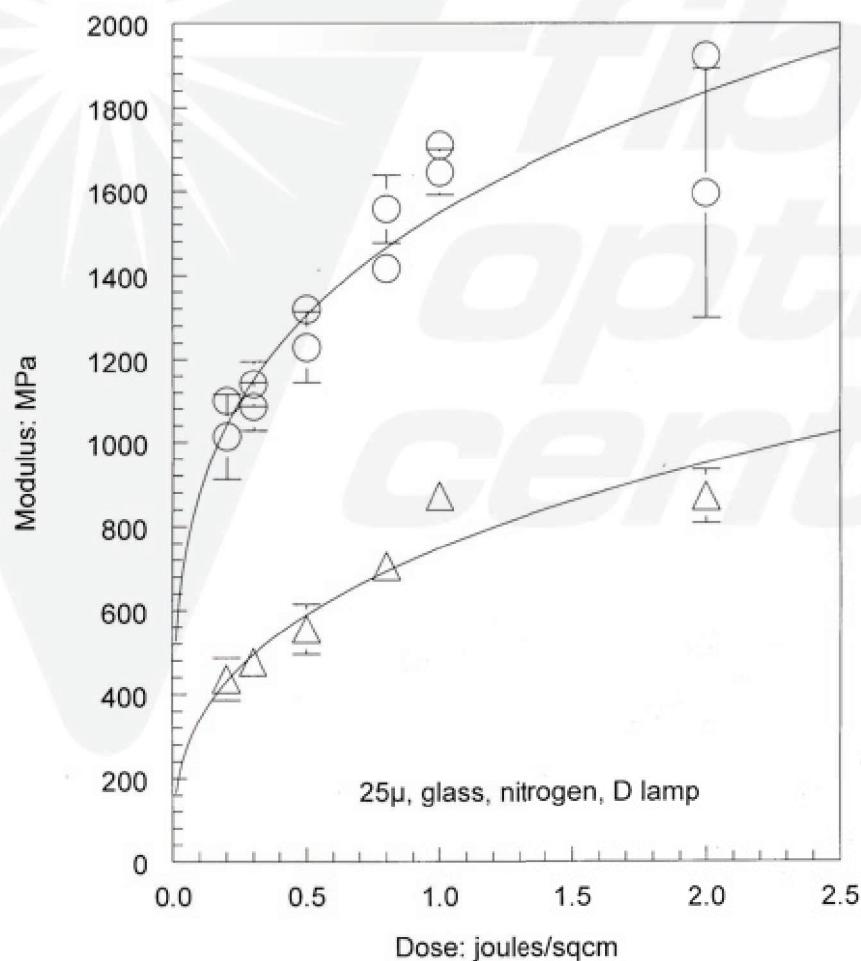


Ink Bases: Dose - Modulus

LTS and Cablelite 751

△ LTS

○ "751"



Contact the professionals at Fiber Optic Center for a quote or to get more details.

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are subject to change without notice.
FOC last update 1/22/2026.



Learn More



Manufacturer:
Covestro

Product Name:
Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

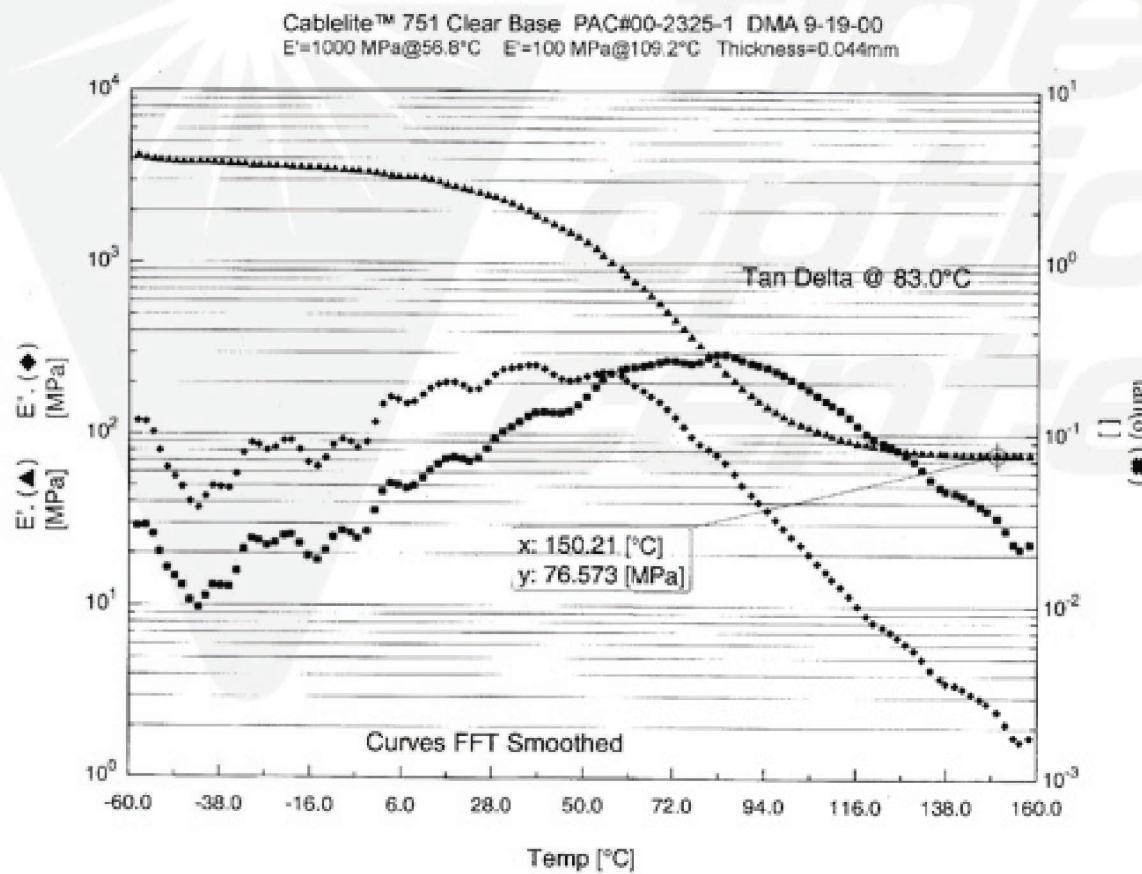
Manufacturer Part Number:
COV-751-012

► Click here for more details on the Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Aqua

Cablelite® 751 Inks



Dynamic Mechanical Analysis



Contact the professionals at Fiber Optic Center for a quote or to get more details.

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are subject to change without notice.
FOC last update 1/22/2026.