

[Learn More](#)**Manufacturer:**  
ÅngströmBond®**Product Name:**  
Cablelite® 950-706 Optical Fiber Coating (Matrix Coating), UV Cure (1 kg)**Manufacturer Part Number:**  
COV-950-706-1KG

▶ Click here for more details on the Cablelite® 950-706 Optical Fiber Coating (Matrix Coating), UV Cure (1 kg)

## Product Data



# Cablelite® 950-706

### Product Description

Cablelite® 950-706 matrix material is a proven product in producing optical fiber ribbons. The versatility of this material for various ribbon designs is unsurpassed. Cablelite® 950-706 is the industry standard for optical fiber ribboning.

### Product Benefits

- Extremely fast cure
- Very low water sensitivity
- Excellent low-temperature performance
- Patent protected

### Performance Characteristics

| Liquid Coating                    | Typical Properties |
|-----------------------------------|--------------------|
| Viscosity, 25°C, mPa·s            | 4850               |
| Density, 23°C, kg·m <sup>-3</sup> | 1120               |

| Cured Coating*   | Typical Properties |
|--|--------------------|
| Glass Transition Range (DMA**), °C at E' <sub>1000 MPa</sub> | 35                 |
| Glass Transition Range (DMA**), °C at E' <sub>100 MPa</sub>  | 59                 |

### Performance Characteristics (cont'd)

| Cured Coating*  | Typical Properties |
|---|--------------------|
| (Tested at 23°C, 50% R.H.)  |                    |
| Secant modulus***, 2.5% strain, MPa<br>-- on polyester                          | 906                |
| Elongation***, %<br>-- on polyester   | 25                 |
| Tensile strength***, MPa<br>-- on polyester                                     | 35                 |
| Degree of Cure (UV dose at 95% of Ultimate Secant Modulus, J·cm <sup>-2</sup> ) | 0.3                |
| Water Absorption after 24 hrs., 250 µm films, %                                 | 2.0                |
| Hydrogen generation (24 hrs, 80°C in air, 75 µm films, µl·g <sup>-1</sup> )     | 0.2                |

\*75 µm films cured in nitrogen at 1.0 J·cm<sup>-2</sup> using one D lamp, unless stated otherwise. UV dose determined with an IL-390 radiometer manufactured by International Light, Inc.

\*\*Dynamic Mechanical Analysis (see DMA graph)

\*\*\*TEM properties on polyester were obtained after 1 to 2 hours conditioning at 22 +/- 2°C and 50% +/- 5 RH.

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

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Product specifications and data are subject to change without notice. FOC last update 1/29/2026.



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## Cablelite® 950-706



### 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.

### Shelf Life

Cablelite® matrix materials have a shelf life of 18 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 Fiber Optic Center sales representative. All safety and handling recommendations should be followed carefully.

### Conversions

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

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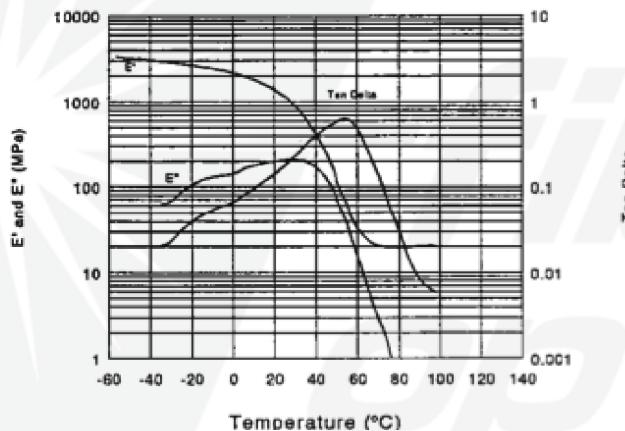
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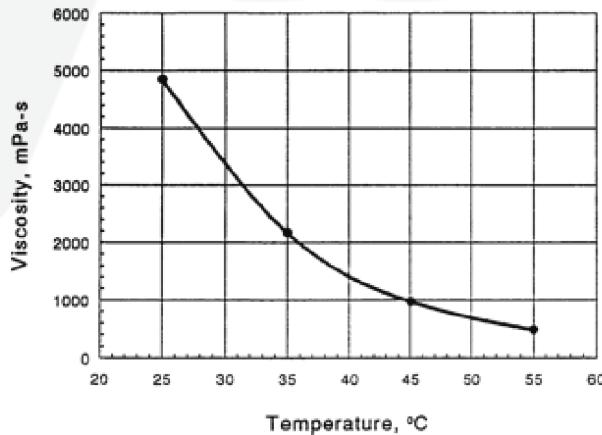
## Cablelite® 950-706

ÅNGSTRÖM Bond®

Dynamic Mechanical Analysis (DMA)



Viscosity vs. Temperature



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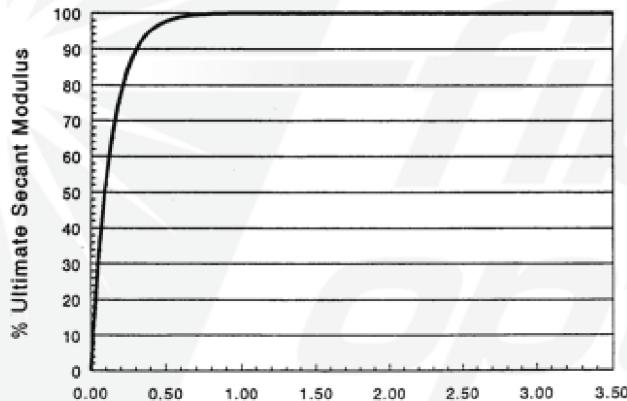
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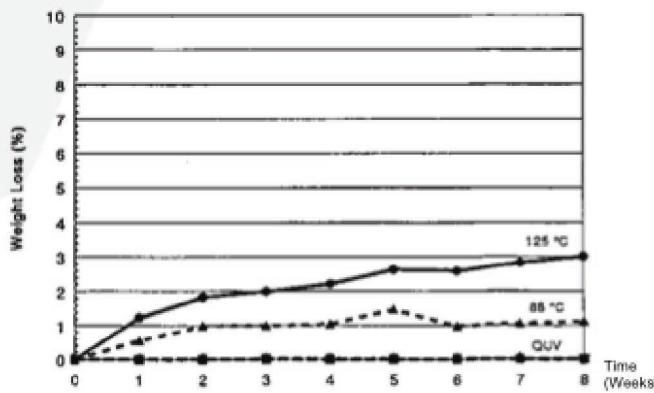
## Cablelite® 950-706

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Cure Speed



Accelerated Aging



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