



**Manufacturer:**  
ÅngströmBond®

**Product Name:**  
Desolite® 3471-3-14 Single Coat Primary Optical Fiber Coating,  
UV Cure (1 kg)

**Manufacturer Part Number:**  
COV-3471-3-14-1KG



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## DeSolite®

Optical Fiber Coatings



### Product Data

## DeSolite® 3471-3-14

#### Product Description

Optical fiber primary coating

#### Product Benefits

- Single layer application
- Excellent adhesion
- Low moisture sensitivity
- Patent-protected

#### Characteristics

Liquid Coating	Typical Properties
Viscosity, 25 °C, mPa•s	10,000
Density, 23 °C, kg•m <sup>-3</sup>	1110
Liquid Refractive Index, 23 °C	1.500
Surface tension, 23 °C, dynes•cm <sup>-1</sup>	25
Cured Coating* (Tested at <1% R.H.)	Typical Properties
Glass Transition Range (DMA**), °C at E' <sub>1000 MPa</sub>	-18
Glass Transition Range (DMA**), °C at E' <sub>100 MPa</sub>	29
Cured Coating* (Tested at 23 °C, 50% R.H.)	Typical Properties
Segment modulus, 2.5% strain, MPa	35
Elongation, %	60
Tensile strength, MPa	12
Degree of Cure (UV dose at 95% of Ultimate Secant Modulus, J•cm <sup>-2</sup> )	0.4
Dynamic water sensitivity (150 µm films) -- weight change, % -- extractables, %	2.0 1.0
Refractive Index	1.540

Cured Coating* (continued) (Tested at 23 °C, 50% R.H.)	Typical Properties
Hydrogen generation (24 hrs, 80 °C in air, 75 µm films, µl•g <sup>-1</sup> )	0.2
Volumetric coefficient of expansion (DMA), 500 µm films -- in the glassy region (x10 <sup>-6</sup> ), °C <sup>-1</sup> -- in the rubbery region (x10 <sup>-6</sup> ), °C <sup>-1</sup>	50 180
Adhesion to glass, per 25mm -- 50% R.H. (Nx10 <sup>-2</sup> ) -- 95% R.H. (Nx10 <sup>-2</sup> )	50 5
Aging after 8 weeks Thermal weight change, % -- at 95 °C -- at 125 °C	1 6

\*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)

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

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*Product specifications and data are  
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## DeSolite® 3471-3-14



### Test Methods

Test methods available upon request.

### Filtration

DeSolite® Optical Fiber Coatings are manufactured using fine filtration techniques designed to minimize particulate matter and to ensure high strength and uniform product performance.

### Storage Conditions

Protect DeSolite® coatings from all sources of ultraviolet light, including sunlight and fluorescent light, to prevent premature curing. It is recommended that DeSolite® coatings be stored in a dry place in unopened, undamaged, original containers at temperatures between 15°C and 30°C. Storage or shipment in cold conditions may result in a phase separation which is reversible and is corrected by heating for 24 hours at 50°C. If possible, the container should be gently rolled to assure uniform dissolution during this heating process.

### Shelf Life

DeSolite® 3471-3-14 has a recommended shelf life of 18 months from the date of manufacture, provided that the above stated 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 Fiber Optic Center sales representative. All safety and handling recommendations should be followed carefully.

### Conversions

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

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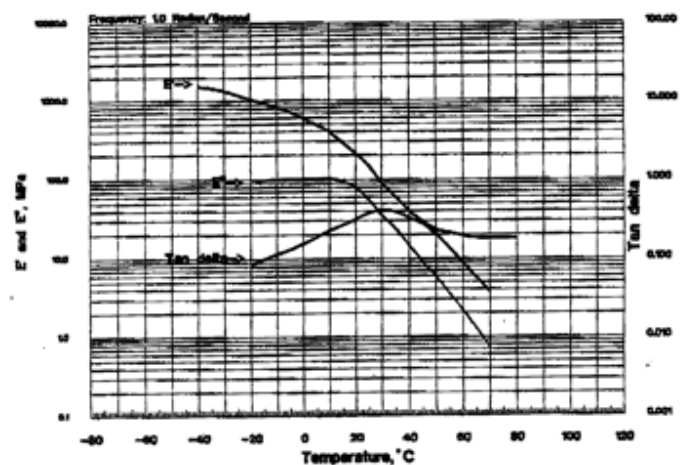
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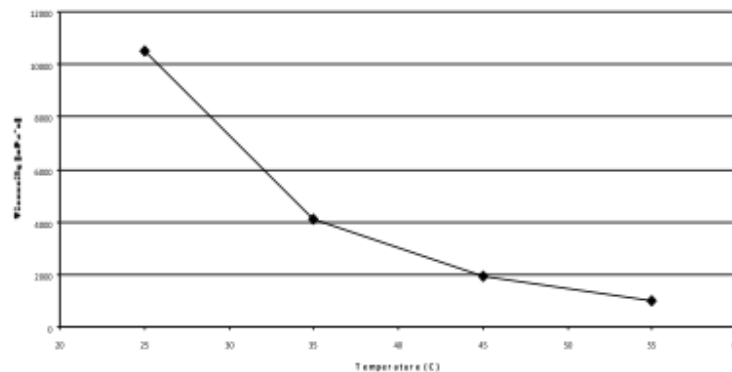
## DeSolite® 3471-3-14



### Dynamic Mechanical Analysis (DMA)



### Viscosity vs. Temperature

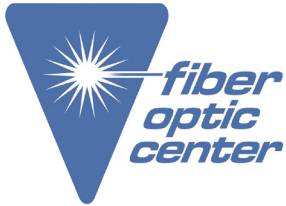


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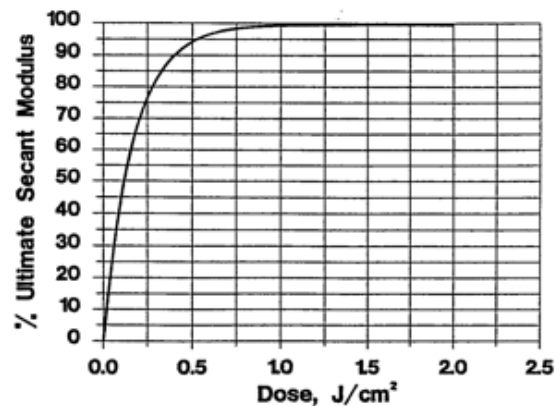
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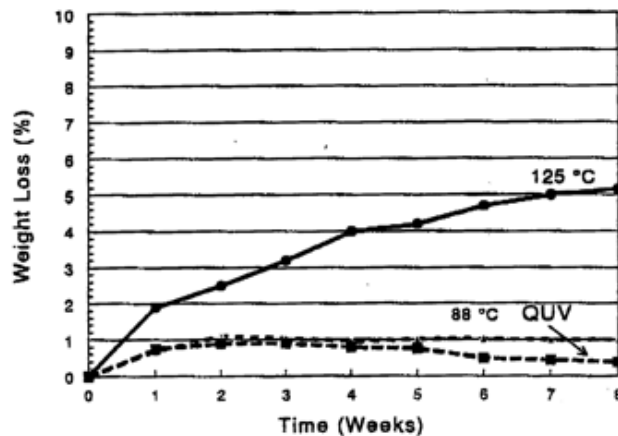
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### Cure Speed



### Accelerated Aging



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