



**Manufacturer:**

Covestro

**Product Name:**

Covestro Desolite® 3471-2-136 Secondary Optical Fiber Coating, UV Cure (10 kg)

**Manufacturer Part Number:**

COV-3471-2-136-10KG



▶ Click here for more details on the Covestro Desolite® 3471-2-136 Secondary Optical Fiber Coating, UV Cure (10 kg)

**DeSolite®**  
Optical Fiber Coatings



Product Data

**DeSolite® 3471-2-136**

**Product Description++**

Optical fiber secondary coating

**Product Benefits**

- Industry standard
- Fast cure
- Compatible with wet-on-wet or wet-on-dry coating process
- Compatible with multiple DeSolite primaries
- Patent-protected

**Characteristics**

Liquid Coating	Typical Properties
Viscosity, --- at 25°C, mPa•s	4750
--- at 35°C, mPa•s	2050
Density, 23°C, kg•m <sup>-3</sup>	1121
Liquid Refractive Index, 23°C	1.519
Surface tension, 23°C, dynes•cm <sup>-1</sup>	24
Cured Coating* (Tested at <1% R.H.)	Typical Properties
Glass Transition Range (DMA**), °C at E' <sub>1000 MPa</sub>	29
Glass Transition Range (DMA**), °C at E' <sub>100 MPa</sub>	51
Cured Coating* (Tested at 23°C, 50% R.H.)	Typical Properties
Segment modulus, 2.5% strain, MPa	731
Elongation, %	27
Tensile strength, MPa	29
Degree of Cure (UV dose at 95% of Ultimate Secant Modulus, J•cm <sup>-2</sup> )	0.2
Dynamic water sensitivity (250 µm films)	
-- peak absorption, %	1.6
-- extractables, %	0.8

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>	<100
-- in the rubbery region (x10 <sup>-6</sup> ), °C <sup>-1</sup>	450
Aging after 8 weeks Thermal weight change, %	
-- at 95°C	3
-- at 125°C	3

\*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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23 Centre Street • New Bedford, MA 02740 USA

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## DeSolite® 3471-2-136



**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® 3471-2-136 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 Covestro sales representative. All safety and handling recommendations should be followed carefully.

**Conversions**

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

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.

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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.

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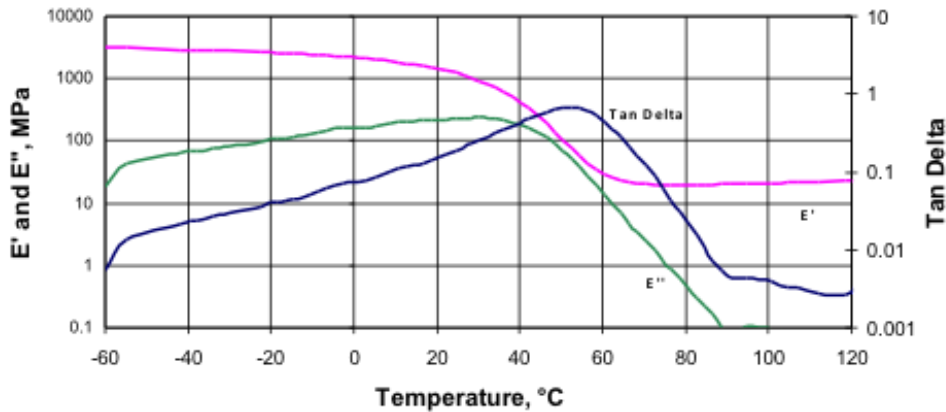
Learn More

▶ [Click here for more details on the Covestro Desolite® 3471-2-136 Secondary Optical Fiber Coating, UV Cure \(10 kg\)](#)

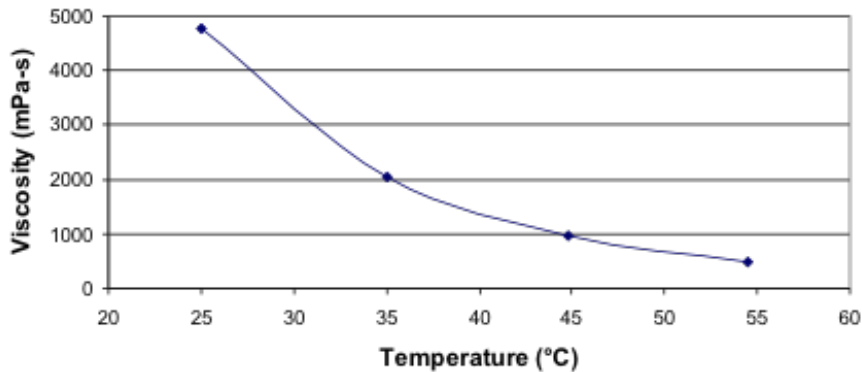
## DeSolite® 3471-2-136



### Dynamic Mechanical Analysis (DMA)



### Viscosity vs. Temperature



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