

**Manufacturer:**

Covestro

**Product Name:**Covestro DeSolite® DF-0009 Single Coat Optical Fiber Coating,  
UV Cure (1 kg)**Manufacturer Part Number:**

COV-DF-0009-1KG

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**DeSolite®**  
Optical Fiber Coatings

**Product Data****DeSolite® DF-0009****Product Description**

DeSolite® DF-0009 is an optical fiber single coat designed for higher temperature fiber applications.

**Performance Characteristics**

Liquid Coating	Typical Properties
Viscosity, 25°C, mPa•s	6,700
Density, 23°C, kg•m <sup>-3</sup>	1,120
Liquid Refractive Index, 23°C	1.520

Cured Coating* (Tested at 23°C, 50% R.H.)	Typical Properties
Segment modulus, 2.5% strain, MPa	700
Elongation, %	15
Tensile strength, MPa	23
Degree of Cure (UV dose at 95% of Ultimate Secant Modulus, J•cm <sup>-2</sup> )	0.9

\*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)

Cured Coating* (Tested at <1% R.H.)	Typical Properties
Glass Transition Range (DMA**), °C at E' <sub>1000 MPa</sub>	2
Glass Transition Range (DMA**), °C at E' <sub>100 MPa</sub>	48
Cured Refractive Index	1.540
TGA weight loss 120 hrs @ 200°C, %	9.9

**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

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

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## DeSolite® DF-0009

**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**

DeSolite® 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**

DeSolite® DF-0009 has a shelf life of 2 years 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**

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

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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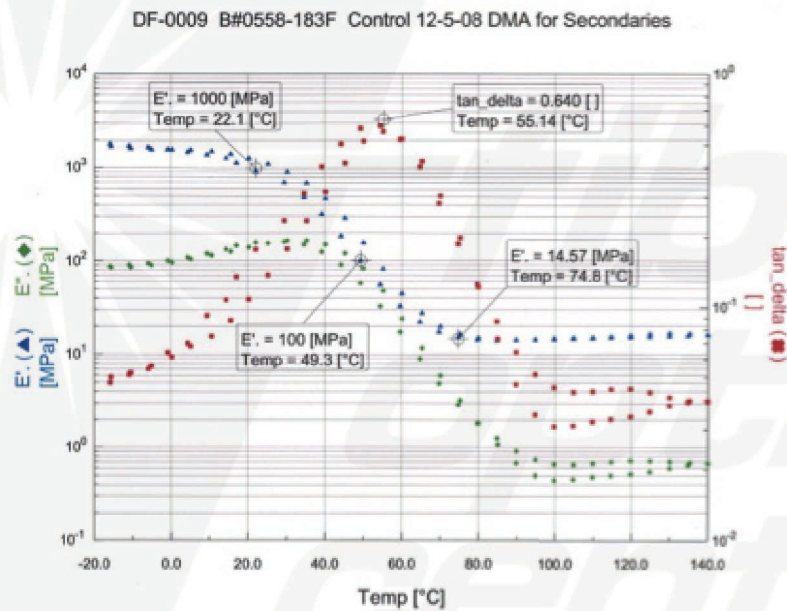
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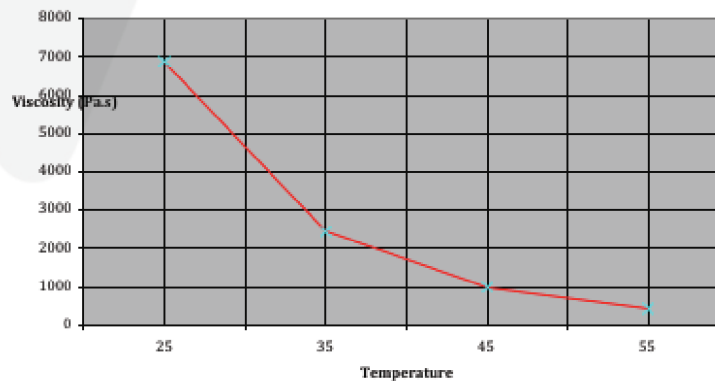
## DeSolite® DF-0009



### Dynamic Mechanical Analysis (DMA)



Temperature/Viscosity Curve of DF-0009



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