

[Learn More](#)**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DF-0016 Optical Fiber Coating (Splicing and Recoat Matrix Coating), UV Cure (1 kg)

**Manufacturer Part Number:**

COV-DF-0016-1KG

► Click here for more details on the Covestro DeSolite® DF-0016 Optical Fiber Coating (Splicing and Recoat Matrix Coating), UV Cure (1 kg)

# DeSolite® Optical Fiber Coatings



## Product Data

### DeSolite® DF-0016

#### Product Description

DeSolite® DF-0016 is an optical fiber coating with low refractive index and very low haze. Due to its relatively low modulus, this coating is usually protected by topcoating it with DeSolite® DS-2015 or any other secondary optical fiber coating.

#### Product Benefits

- Patent-protected
- High clarity (very low haze)
- Processing ease:
  - solvent free
  - fast line speed

#### Performance Characteristics

Liquid Coating	Typical Properties
Viscosity, 25°C, mPa•s	4,200
Density, 23°C, kg•m <sup>-3</sup>	1,005
Liquid Refractive Index, 23°C	1.363

Cured Coating* (Tested at 23°C, 50% R.H.)	Typical Properties
Segment modulus, 2.5% strain, MPa	10
Elongation, %	45
Tensile strength, MPa	3
Refractive Index	1.370
Hardness, Shore A	80

\*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.**

[focenter.com](http://focenter.com) • 508-992-6464 | (800) 473-4237 • [sales@focenter.com](mailto:sales@focenter.com)

23 Centre Street • New Bedford, MA 02740 USA

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



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## DeSolite® DF-0016



**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-0016 has a shelf life of 2 years from the date of manufacture, provided recommended storage conditions are properly maintained.

**Safety Information**

Safety data sheets for each product are available from your Covestro sales representative. All safety and handling recommendations should be followed carefully.

**Conversions**

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

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.

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.

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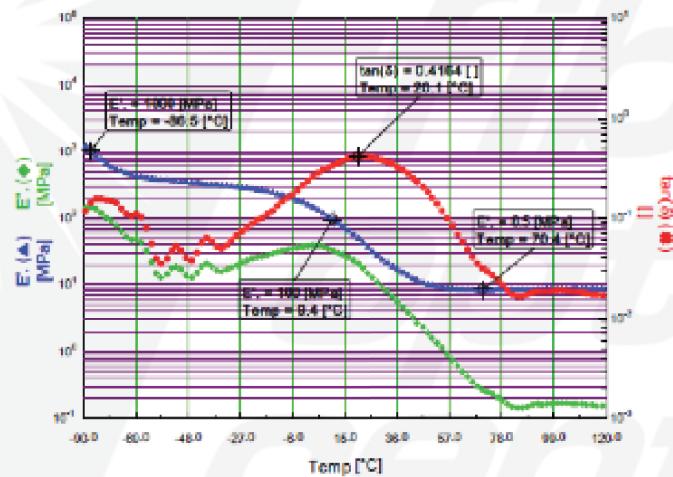
COV-DF-0016-1KG

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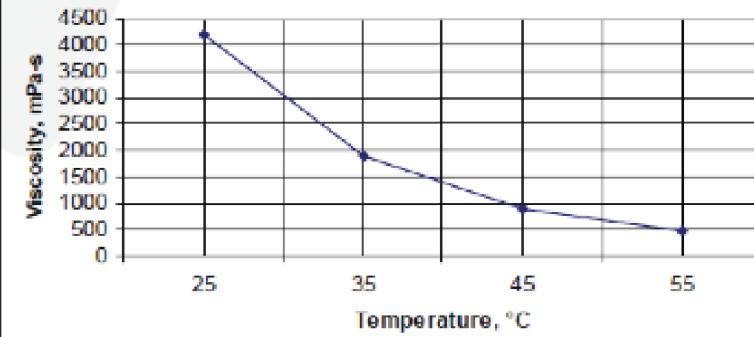
## DeSolite® DF-0016



### Dynamic Mechanical Analysis (DMA) DF-0016



### Temperature/Viscosity Curve DF-0016



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