

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

Covestro

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

COV-DF-0009-1KG

▶ Click here for more details on the Covestro DeSolite® DF-0009 Single Coat Optical Fiber Coating, UV Cure (1 kg)

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 ⁻³	1,120
Liquid Refractive Index, 23 °C	1.520

Cured Coating*	Typical Properties
(Tested at 23 °C, 50% R.H.)	
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 ⁻²)	0.9

*75 µm films cured in nitrogen at 1.0 J•cm⁻² 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*	Typical Properties
(Tested at <1% R.H.)	
Glass Transition Range (DMA**), °C at E' _{1000 MPa}	2
Glass Transition Range (DMA**), °C at E' _{100 MPa}	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.

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are subject to change without notice. FOC last update 1/29/2020.



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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

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

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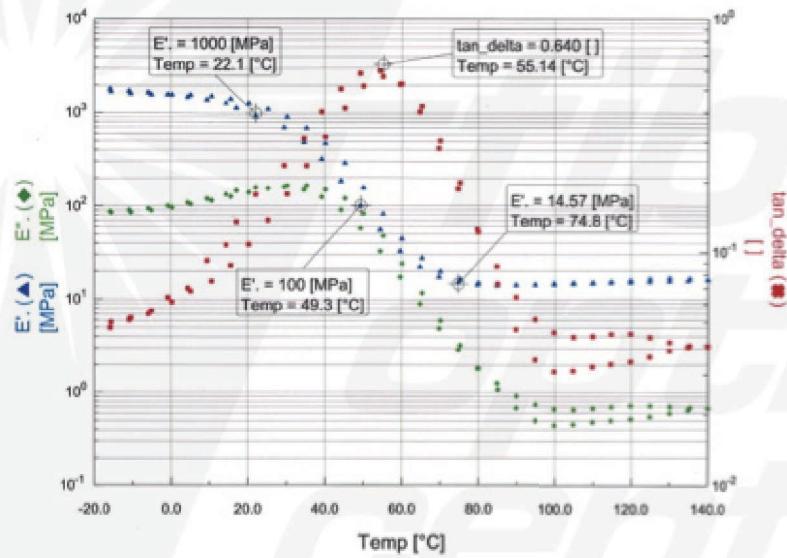
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DeSolite® DF-0009

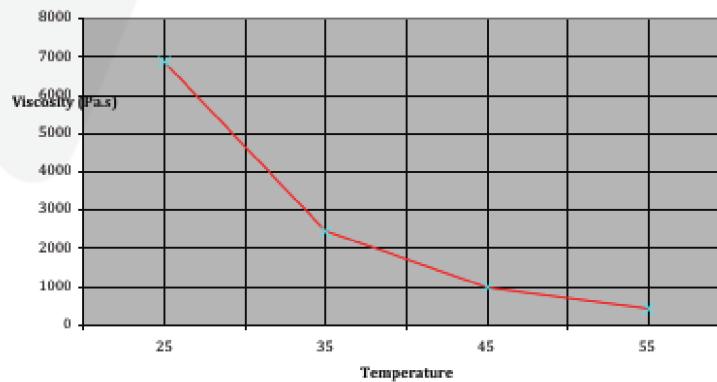


Dynamic Mechanical Analysis (DMA)

DF-0009 B#0558-183F Control 12-5-08 DMA for Secondaries



Temperature/Viscosity Curve of DF-0009



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