



### 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

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  $\mu m$  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)

#### 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

### DeSolite<sup>®</sup> DF-0016



#### Test Methods

Test methods available upon request.

#### **Filtration**

DeSolite<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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**

N = g•f x 9.807 x 10 -3 kg•mm-2 = MPa x 0.102 psi = MPa x 145 mPa•s = cps

#### Contact Us:

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