Manufacturer:
ÅngströmBond®

Product Name:
Desolite® 3471-2-136 Secondary Optical Fiber Coating, UV Cure (1 kg)

Manufacturer Part Number:
COV-3471-2-136-1KG

Click here for more details on the Desolite® 3471-2-136 Secondary Optical Fiber Coating, UV Cure (1 kg)

DeSolite®
Optical Fiber Coatings

ÅNGSTRÖMBOND

Product Data

DeSolite® 3471-2-136

Product Description++
Optical fiber secondary coating

Characteristics

Liquid Coating	Typical Properties
Viscosity, --- at 25°C, mPa•s --- at 35°C, mPa•s	 4750 2050
Density, 23°C, kg•m^{-3}	1121
Liquid Refractive Index, 23°C	1.519
Surface tension, 23°C, dynes•cm^{-1}	24

Cured Coating* (Tested at <1% R.H.)	Typical Properties
Glass Transition Range (DMA**), °C at E'$_{1000\ MPa}$	29
Glass Transition Range (DMA**), °C at E'$_{100\ MPa}$	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^{-2})	0.2
Dynamic water sensitivity (250 µm films) -- peak absorption, % -- extractables, %	 1.6 0.8

Product Benefits

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

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-1)	0.2
Volumetric coefficient of expansion (DMA), 500 µm films -- in the glassy region (x10^{-6}), °C^{-1} -- in the rubbery region (x10^{-6}), °C^{-1}	 <100 450
Aging after 8 weeks Thermal weight change, %, -- at 95°C -- at 125°C	 3 3

*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)

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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
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 Fiber Optic Center sales representative. All safety and handling recommendations should be followed carefully.

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

UPDATED 30-March-2025

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

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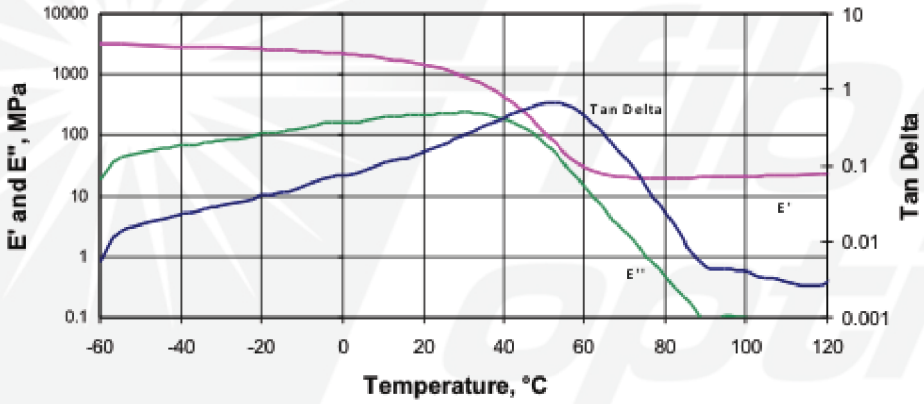
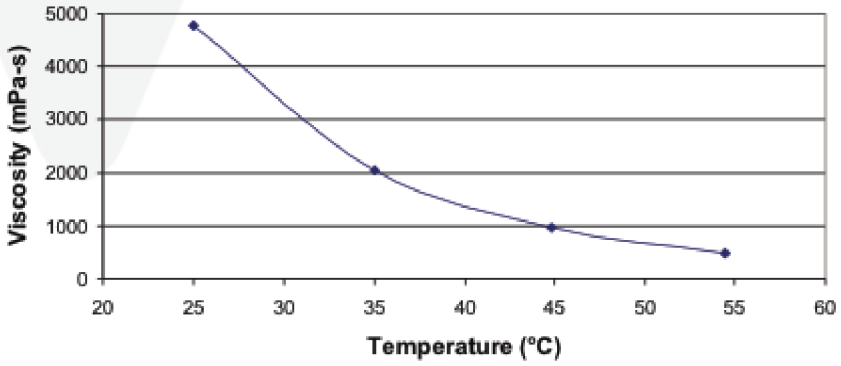
Dynamic Mechanical Analysis (DMA)



Viscosity vs. Temperature



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