Manufacturer:
ÅngströmBond®

Product Name:
Desolite® 950-200 Optical Fiber Coating (Splicing and Recoat Coating), UV Cure (1 oz)

Manufacturer Part Number:
COV-950-200-1OZ

DeSolite®
Optical Fiber Coatings

ÅNGSTRÖMBOND

Product Data

DeSolite® 950-200

Product Description

DeSolite® 950-200 UV-curable splicing compound provides long-term protection of optical fiber from moisture and chemicals. Its low viscosity makes this product suitable for all automatic and manual recoat applicators. DeSolite® 950-200 is a one-component system that has been used in the industry for more than 10 years.

Product Benefits

- Low viscosity for splicing applications
- Very low water sensitivity
- Will not stick to recoater molds
- Patent-protected

Performance Characteristics

Liquid Coating	Typical Properties
Viscosity, at 25°C, mPa•s	2500
Density, 23°C, kg•m^{-3}	1080
Refractive Index, 23°C	1.500
Surface tension, 23°C, dynes•cm^{-1}	35

Cured Coating* (Tested at <1% R.H.)	Typical Properties
Glass Transition Range (DMA*), °C -- Peak Tan δ	26

*Dynamic Mechanical Analysis (see DMA graph)

Cured Coating* (continued) (Tested at 23°C, 50% R.H.)	Typical Properties
Secant modulus, 2.5% strain, MPa	28
Elongation, %	55
Tensile strength, MPa	9
Degree of Cure (UV dose at 95% of Ultimate Secant Modulus, J•cm^{-2})	0.8
Cure speed by FT-IR, sec -- Time to reach 90% cure	3
Dynamic water sensitivity (250 µm films) -- weight change, % -- extractables, %	 0.5 1.0
Refractive Index	1.550
Linear shrinkage on cure, %	2
Hydrogen generation (24 hrs, 80°C in air, 75 µm films, µl•g^{-1})	1.3
Coefficient of expansion (TMA), 500 µm films -- in glassy region (x10^{-6}), °C^{-1} -- in rubbery region (x10^{-6}), °C^{-1}	 90 250
% Transmission, 75µm film -- 1310 nm -- 1550 nm	 99 99
Coefficient of friction (cured in nitrogen): coating to stainless steel, gm • force	0.3
Adhesion to glass, per 25mm -- Dry, 50% RH, N x (10^{-2}) -- Wet, 95% RH, N x (10^{-2})	 14 7
Aging after 8 weeks Thermal weight change, %, -- at 125°C -- at 85°C -- at 85°C/85% RH	 6 4 3

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Test Methods
Detailed test methods may be obtained through your Covestro sales representative.

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® 950-200 has a recommended shelf life of 2 years 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 also available from your Fiber Optic Center sales representative. All safety and handling recommendations should be followed carefully.

Conversions

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

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

Learn More

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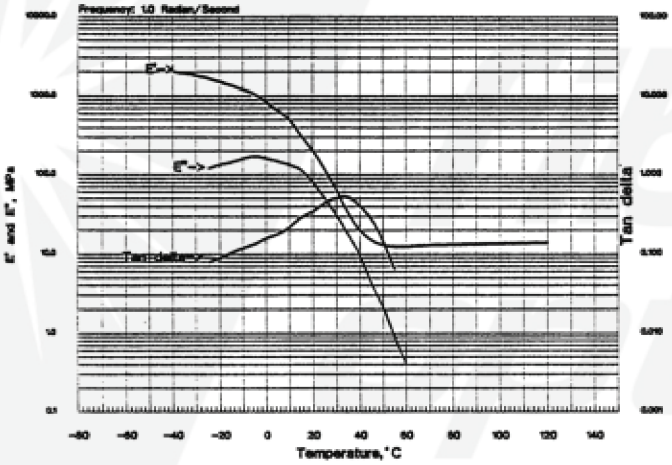
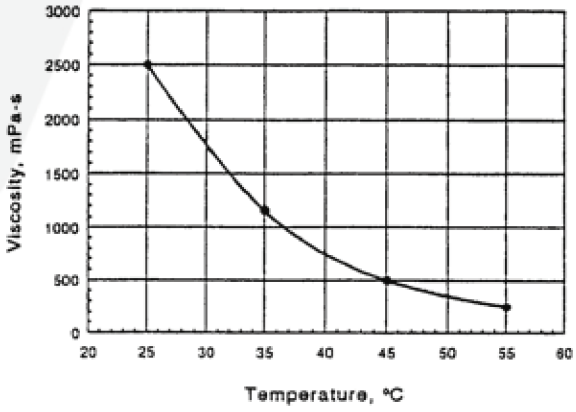
Dynamic Mechanical Analysis (DMA)



Viscosity vs. Temprature



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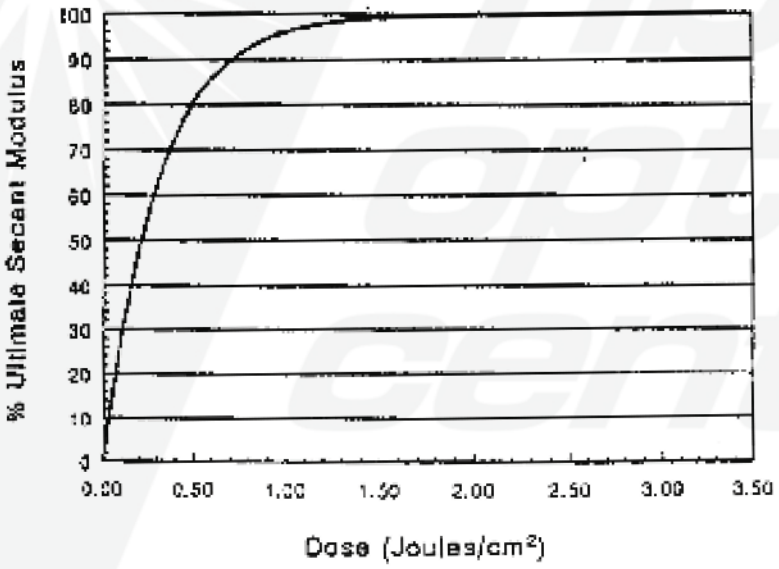
Cure Speed



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