



DeSolite® DS-2900

Characterization

DeSolite® DS-2900 is a secondary coating designed for use in conjunction with DeSolite® DP-1900 or DeSolite® DP-1200 for high-end telecom fiber optic cable coatings systems including G.654.E applications.

Product Benefits

- Fast cure rate that supports ever increasing draw speeds
- Excellent low temperature microbending performance
- Low attenuation
- Suitable for wet-on-wet or wet-on-dry processes
- LED or microwave curable
- Robust field performance under severe environmental conditions

Typical Properties

Liquid Coating

Liquid Refractive Index, 23°C	1.506
Viscosity at 25°C, mPa·s	5800
Surface tension, 23°C, mN/m	19.7

Cured Coating

(75 µ film cured in N₂ at 1 J/cm² using D lamp)

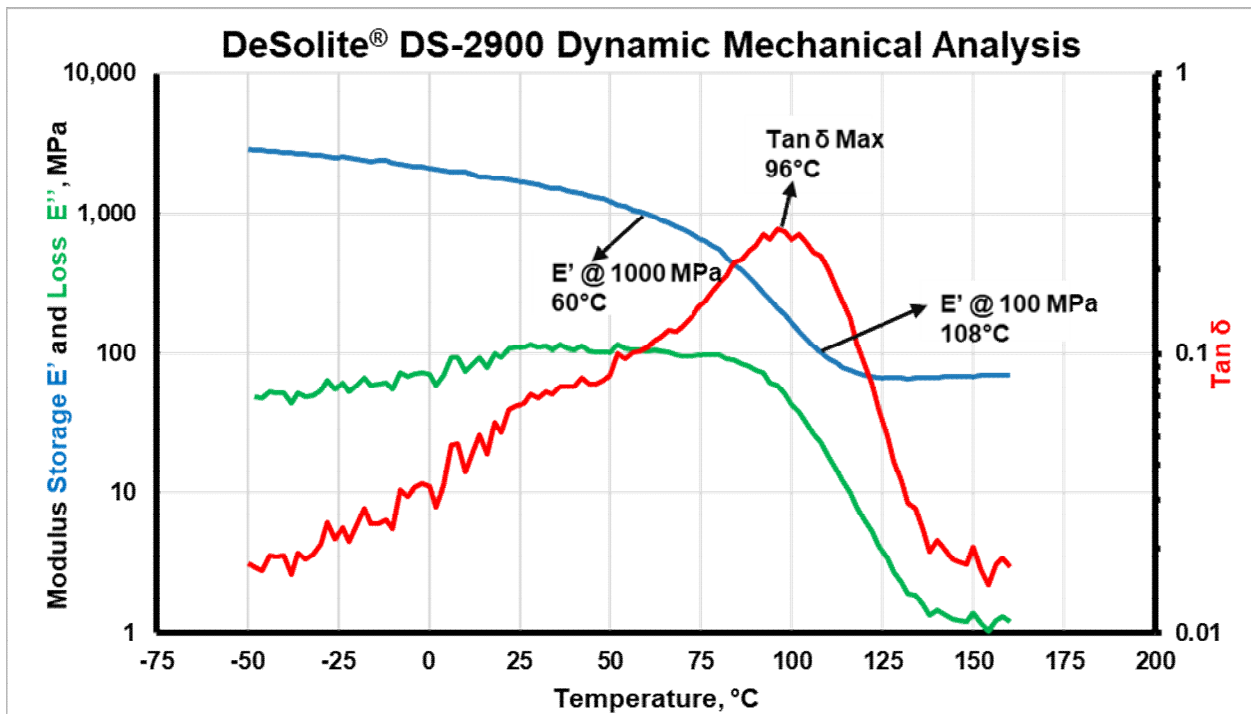
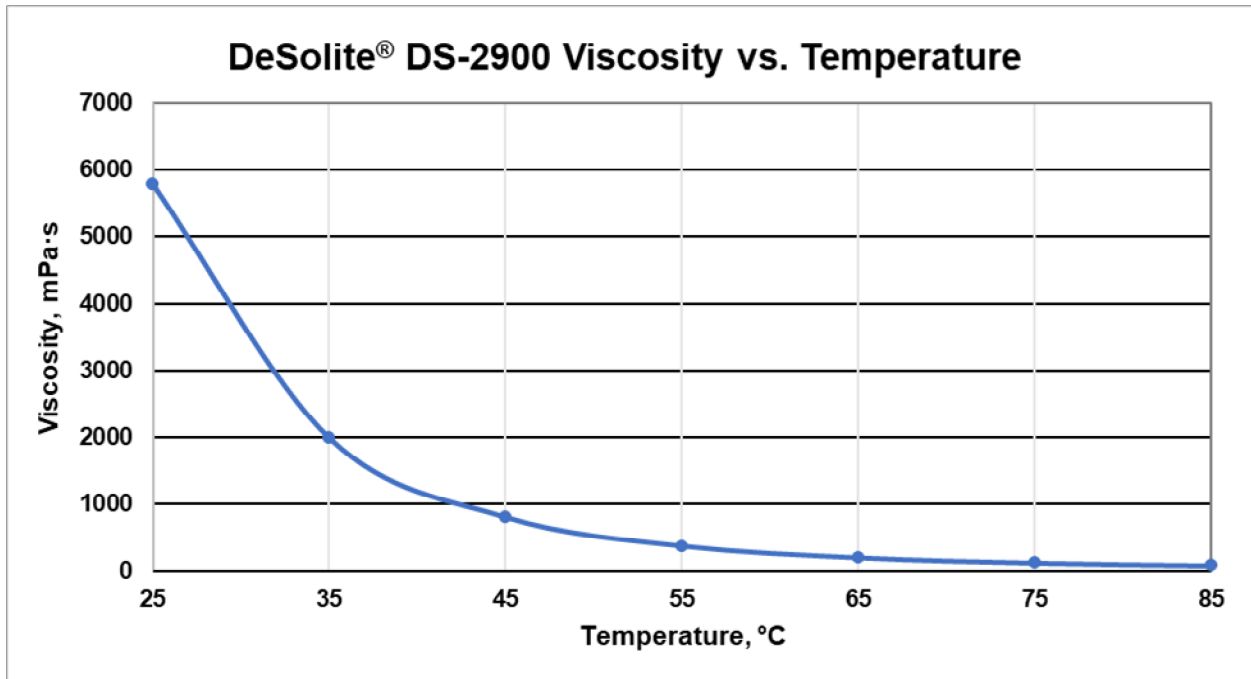
Tg, °C at Tan δ max (DMA)	96
Temperature, °C of E'1000 MPa (DMA)	60
Temperature, °C of E'100 MPa (DMA)	108
Refractive Index (Cured)	1.513
Hydrogen generation (24 hrs, 80°C in air, 75 µm films, µL/g)	0.29

Cured Rod (Cured at 1J)

Elongation, %	33
Tensile strength, MPa	59
Secant modulus, 2.5% strain, MPa	1400
Degree of Cure, % (Rod Modulus Ratio 0.1J/cm ² to 1.0 J/cm ²)	84



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Storage

Protect DeSolite® coatings from all sources of ultraviolet light, including sunlight and fluorescent light, to prevent premature curing. The resin should be stored in a dry place between at temperatures between 15°C and 30°C in original, unopened and undamaged containers. 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.

Storage Time

Covestro represents that, for a period of 18 months (547 days) following the manufacturing date as stated in the respective transport documents, the product will meet the specifications or values set forth in section "specifications or characteristic data" above, whichever is applicable, provided that the product is stored in full compliance with the storage conditions set forth in and referenced under section "storage" above and is otherwise handled appropriately. The lapse of 18 months (547 days) period does not necessarily mean that the product no longer meets specifications or the set values. However, prior to using said product, Covestro recommends to test such a product if it still meets the specifications or the set values. Covestro does not make any representation regarding the product after the lapse of the 18 months (547 days) period and Covestro shall not be responsible or liable in any way for the product failing to meet specifications or the set values after the lapse of the 18 months (547 days) period.

The manner in which you use and the purpose to which you put and utilize 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, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Covestro. 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. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

This product is not designated for the manufacture of a medical device or of intermediate products for medical devices¹⁾. [This product is also not designated for other specifically regulated applications (e.g. including cosmetics, plant protection, fertilisers, plant strengtheners, food processing, food contact and others). If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices or for other specifically regulated applications Covestro must be contacted in advance to provide its agreement to sell such product for such purpose.] Nonetheless, any determination as to whether a product is appropriate for use in a medical device or intermediate products for medical devices, for Food Contact products or cosmetic applications must be made solely by the purchaser of the product without relying upon any representations by Covestro. 1) Please see the "Guidance on Use of Covestro Products in a Medical Application" document. Edition: January, 2018

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