

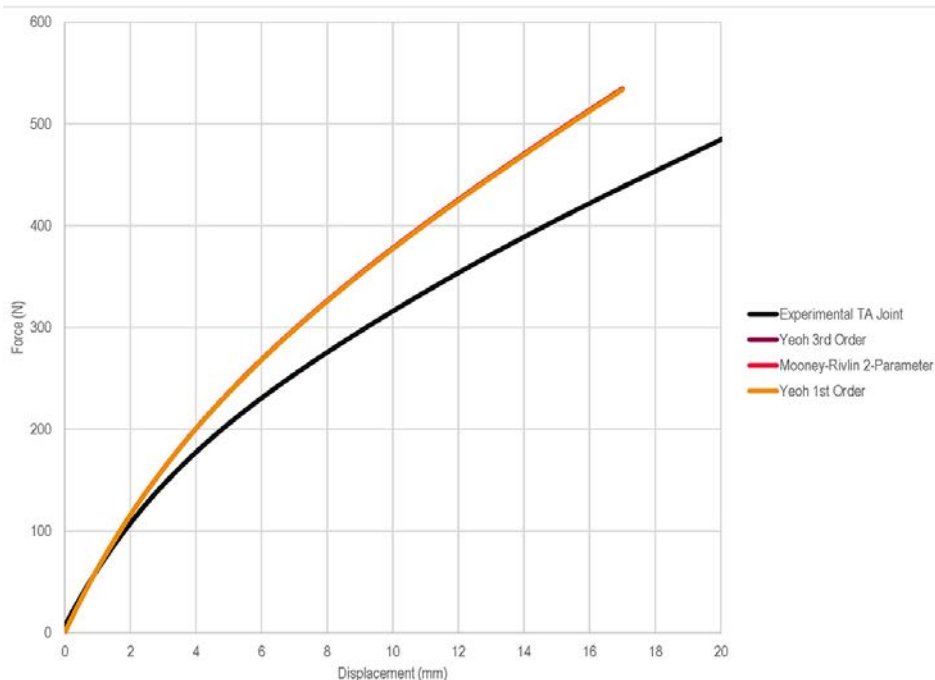


## Behavioral Data Sheet

### DOWSIL™ 895 Structural Glazing Sealant

#### Hyperelastic Model Data

Best Fit Model	Constants	Average Percent Error
Yeoh 3 <sup>rd</sup> Order	$C_{10} = 1.8501 \times 10^5 \text{ Pa}$ $C_{20} = 3.7458 \times 10^2 \text{ Pa}$ $C_{30} = -5.6548 \text{ Pa}$	14.8%
Standard Hyperelastic Models	Constants	Average Percent Error
Mooney-Rivlin 2-Parameter	$C_{10} = 1.8962 \times 10^5 \text{ Pa}$ $C_{01} = -2.3670 \times 10^3 \text{ Pa}$	15.7%
Yeoh 1st Order	$C_{10} = 1.8726 \times 10^5 \text{ Pa}$	15.5%



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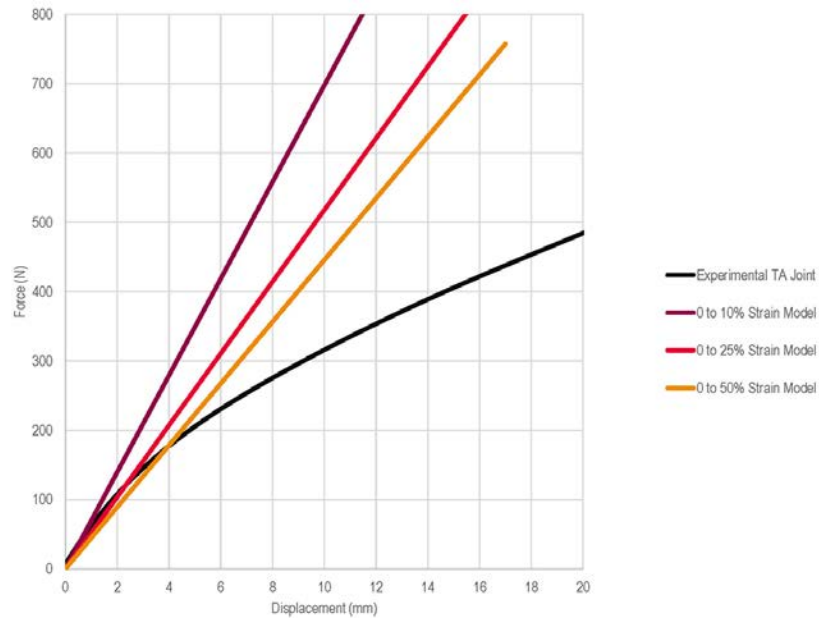
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DOWSIL™ 895 Structural Glazing Sealant

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## Linear Approximation Model Data

Strain Range	Linear Elastic Constants
$\epsilon = 0$ to 10%	$E = 1.132 \text{ MPa}$ $\nu = 0.5$
$\epsilon = 0$ to 25%	$E = 0.840 \text{ MPa}$ $\nu = 0.5$
$\epsilon = 0$ to 50%	$E = 0.723 \text{ MPa}$ $\nu = 0.5$



### Notes:

All testing done at room temperatures and at quasi-static loading rates.

The data provided above is done so for the convenience of designing with Dow products. It is expected that use of this data in computer-based simulations will be accompanied with sound engineering practices of analysis, physical testing, and the proper application of relevant regional building codes.

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