



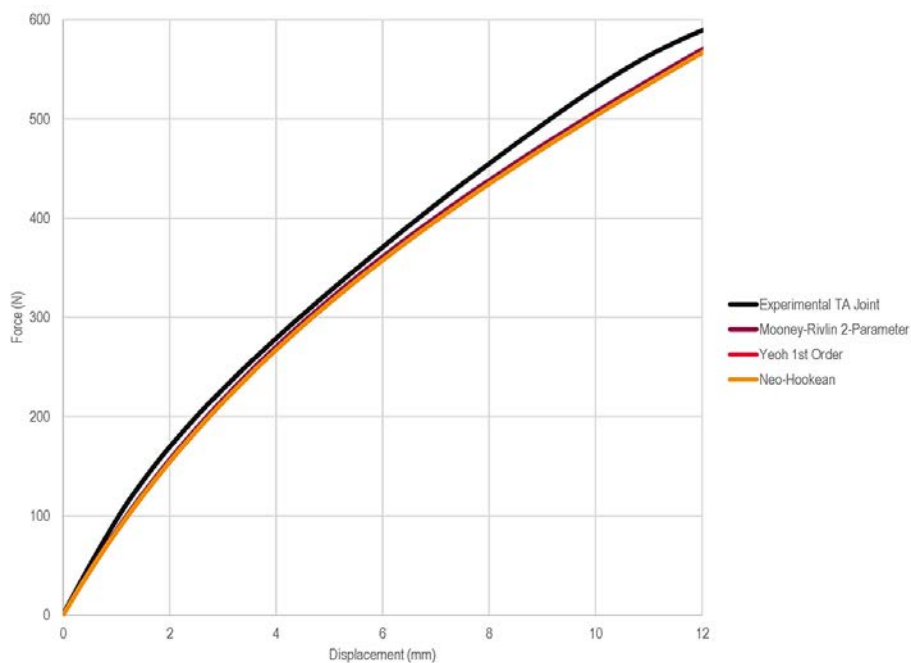
Behavioral Data Sheet

DOWSIL™ 983 Structural Glazing Sealant

Hyperelastic Model Data

Best Fit Model	Constants	Average Percent Error
Mooney-Rivlin 2-Parameter	$C_{10} = 2.3516 \times 10^5 \text{ Pa}$ $C_{01} = 1.9361 \times 10^4 \text{ Pa}$	4.9 %

Standard Hyperelastic Models	Constants	Average Percent Error
Yeoh 1st Order	$C_{10} = 2.4985 \times 10^5 \text{ Pa}$	5.8 %
Neo-Hookean	$\mu = 4.9970 \times 10^5 \text{ Pa}$	5.8 %



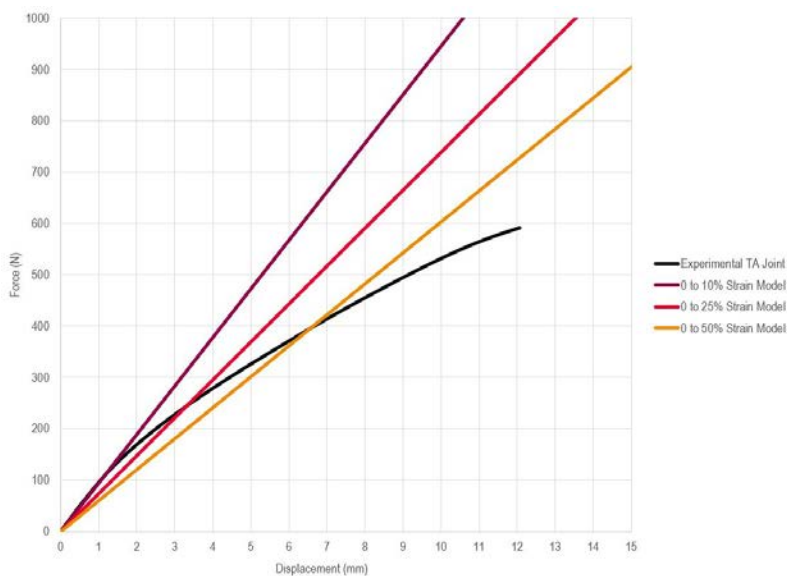
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DOWSIL™ 983 Structural Glazing Sealant

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Linear Approximation Model Data

Strain Range	Linear Elastic Constants
$\epsilon = 0$ to 10%	$E = 1.534 \text{ MPa}$ $\nu = 0.5$
$\epsilon = 0$ to 25%	$E = 1.198 \text{ MPa}$ $\nu = 0.5$
$\epsilon = 0$ to 50%	$E = 0.978 \text{ MPa}$ $\nu = 0.5$



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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