



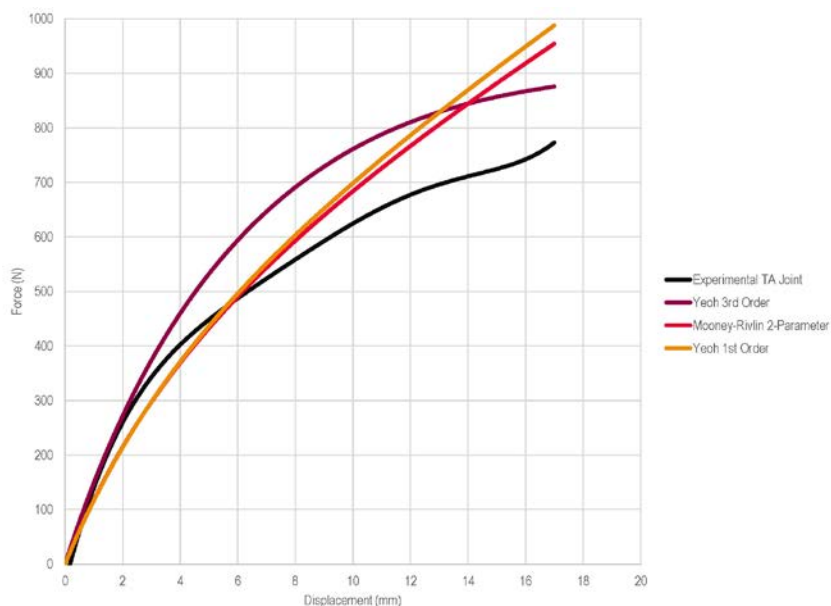
Behavioral Data Sheet

DOWSIL™ 896 PanelFix Sealant

Hyperelastic Model Data

Best Fit Model	Constants	Average Percent Error
Yeoh 3 rd Order	$C_{10} = 4.4429 \times 10^5 \text{ Pa}$ $C_{20} = -2.5044 \times 10^4 \text{ Pa}$ $C_{30} = 1.1081 \times 10^3 \text{ Pa}$	5.4%

Standard Hyperelastic Models	Constants	Average Percent Error
Mooney-Rivlin 2-Parameter	$C_{10} = 2.8040 \times 10^5 \text{ Pa}$ $C_{01} = 7.1459 \times 10^4 \text{ Pa}$	13.1%
Yeoh 1st Order	$C_{10} = 3.4681 \times 10^5 \text{ Pa}$	11.0%



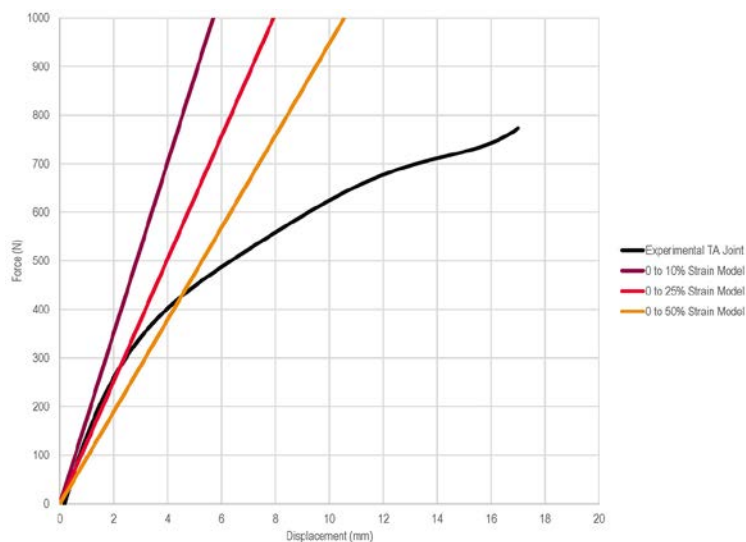
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DOWSIL™ 896 PanelFix Sealant

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Linear Approximation Model Data

Strain Range	Linear Elastic Constants
$\epsilon = 0$ to 10%	$E = 2.855 \text{ MPa}$ $\nu = 0.5$
$\epsilon = 0$ to 25%	$E = 2.047 \text{ MPa}$ $\nu = 0.5$
$\epsilon = 0$ to 50%	$E = 1.538 \text{ MPa}$ $\nu = 0.5$



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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