



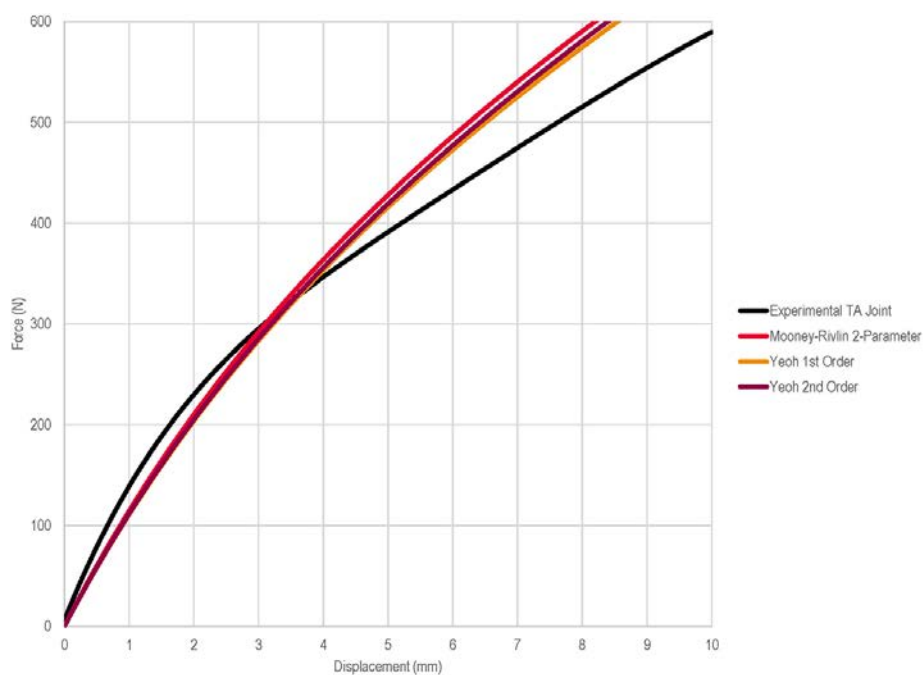
Behavioral Data Sheet

DOWSIL™ 3-0117 Silicone Insulating Glass Sealant

Hyperelastic Model Data

Best Fit Model	Constants	Average Percent Error
Mooney-Rivlin 2-Parameter	$C_{10} = 3.2732 \times 10^5 \text{ Pa}$ $C_{01} = 1.3967 \times 10^4 \text{ Pa}$	8.8%

Standard Hyperelastic Models	Constants	Average Percent Error
Yeoh 1st Order	$C_{10} = 3.3030 \times 10^5 \text{ Pa}$	10.8%
Yeoh 2nd Order	$C_{10} = 3.3217 \times 10^5 \text{ Pa}$ $C_{20} = 9.0037 \times 10^2 \text{ Pa}$	9.5%



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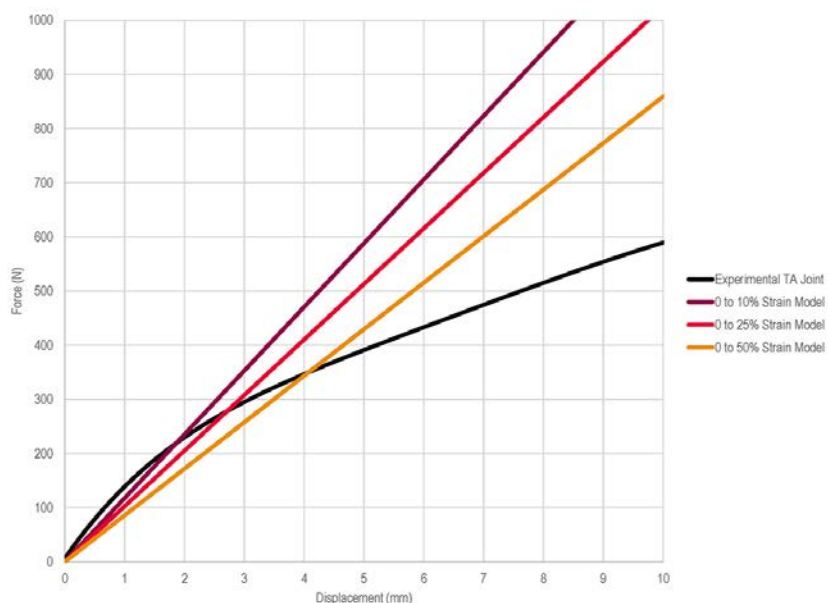
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DOWSIL™ 3-0117 Silicone Insulating Glass Sealant

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Linear Approximation Model Data

Strain Range	Linear Elastic Constants
$\epsilon = 0$ to 10%	$E = 1.909 \text{ MPa}$ $\nu = 0.5$
$\epsilon = 0$ to 25%	$E = 1.665 \text{ MPa}$ $\nu = 0.5$
$\epsilon = 0$ to 50%	$E = 1.394 \text{ MPa}$ $\nu = 0.5$



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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