

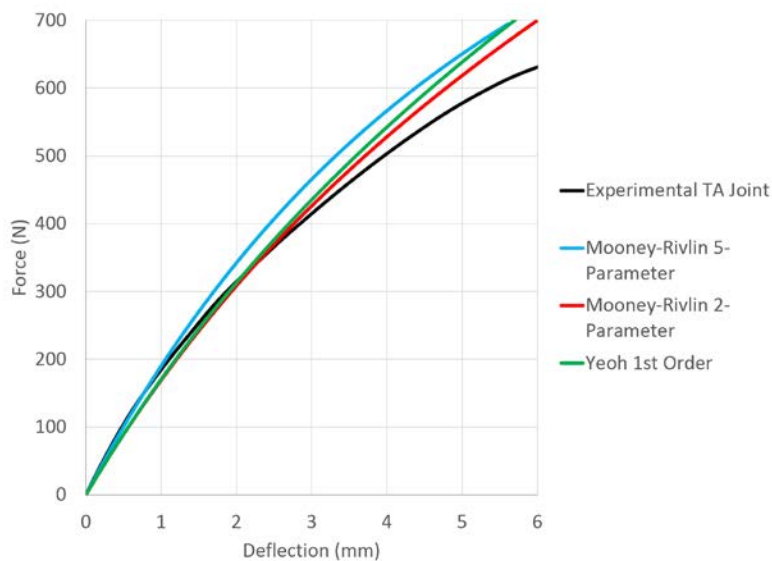


## Behavioral Data Sheet

### DOWSIL™ 3363 Insulating Glass Sealant

#### Hyperelastic Model Data

Best Fit Model	Constants	Average Percent Error
Mooney-Rivlin 5-Parameter	$C_{10} = 3.2620 \times 10^5 \text{ Pa}$ $C_{01} = 2.4909 \times 10^5 \text{ Pa}$ $C_{20} = 8.4471 \times 10^3 \text{ Pa}$ $C_{11} = -1.3464 \times 10^4 \text{ Pa}$ $C_{02} = -3.4885 \times 10^4 \text{ Pa}$	4.6%
Standard Hyperelastic Models	Constants	Average Percent Error
Mooney-Rivlin 2-Parameter	$C_{10} = 3.6600 \times 10^5 \text{ Pa}$ $C_{01} = 1.4209 \times 10^5 \text{ Pa}$	6.0%
Yeoh 1st Order	$C_{10} = 5.0737 \times 10^5 \text{ Pa}$	7.5%



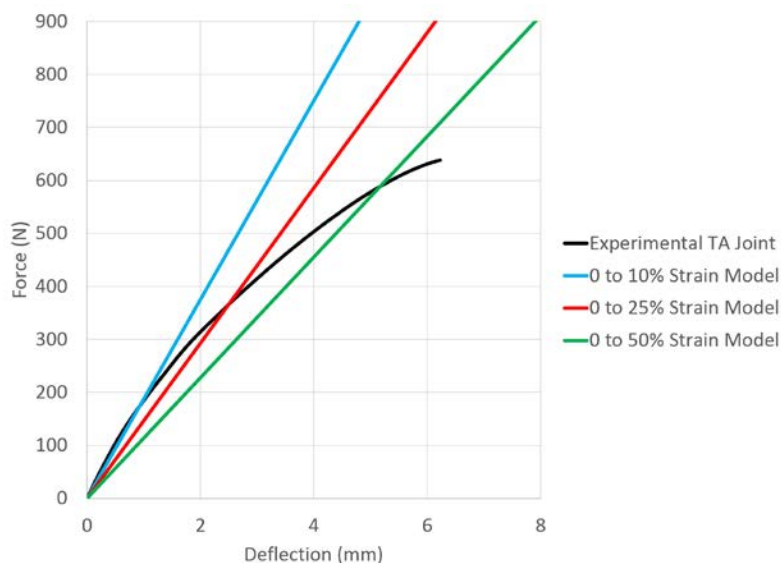
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DOWSIL™ 3363 Insulating Glass Sealant

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## Linear Approximation Model Data

Strain Range	Linear Elastic Constants
$\epsilon = 0$ to 10%	$E = 3.045 \text{ MPa}$ $\nu = 0.5$
$\epsilon = 0$ to 25%	$E = 2.377 \text{ MPa}$ $\nu = 0.5$
$\epsilon = 0$ to 50%	$E = 1.848 \text{ MPa}$ $\nu = 0.5$



### 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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