



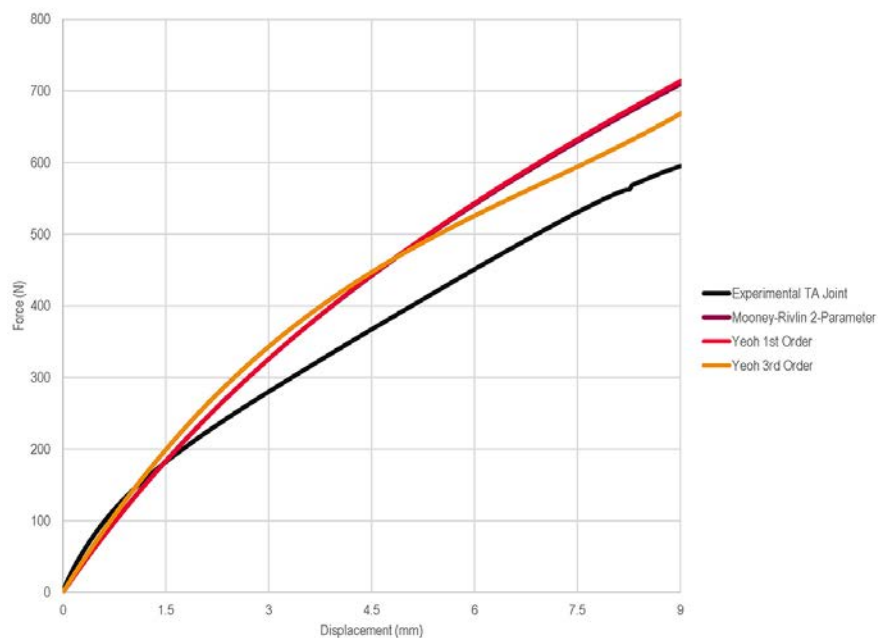
Behavioral Data Sheet

DOWSIL™ 982 Silicone Insulating Glass Sealant

Hyperelastic Model Data

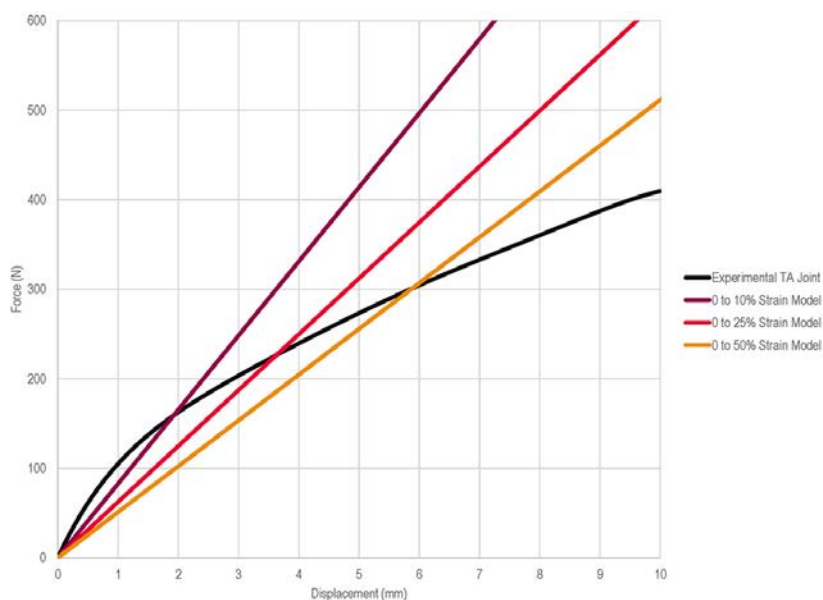
Best Fit Model	Constants	Average Percent Error
Mooney-Rivlin 2-Parameter	$C_{10} = 3.5122 \times 10^5 \text{ Pa}$ $C_{01} = 3.0613 \times 10^4 \text{ Pa}$	12.4%

Standard Hyperelastic Models	Constants	Average Percent Error
Yeoh 1st Order	$C_{10} = 3.7952 \times 10^5 \text{ Pa}$	12.6%
Yeoh 3rd Order	$C_{10} = 4.1864 \times 10^5 \text{ Pa}$ $C_{20} = -5.8702 \times 10^4 \text{ Pa}$ $C_{30} = 1.7811 \times 10^4 \text{ Pa}$	13.3%



Linear Approximation Model Data

Strain Range	Linear Elastic Constants
$\epsilon = 0$ to 10%	$E = 2.332 \text{ MPa}$ $\nu = 0.5$
$\epsilon = 0$ to 25%	$E = 1.693 \text{ MPa}$ $\nu = 0.5$
$\epsilon = 0$ to 50%	$E = 1.430 \text{ MPa}$ $\nu = 0.5$



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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