



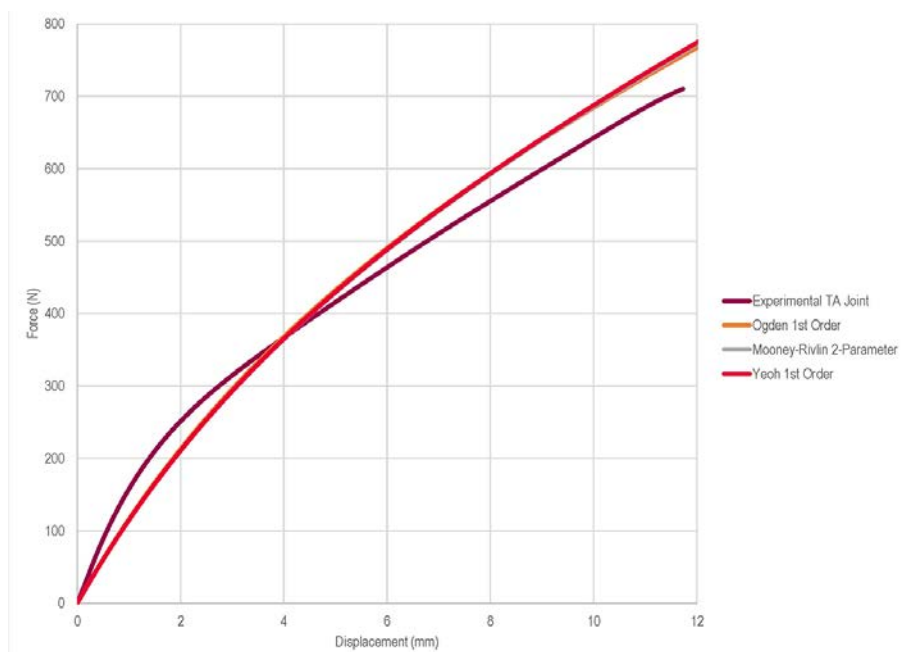
Behavioral Data Sheet

DOWSIL™ 993 Structural Glazing Sealant

Hyperelastic Model Data

Best Fit Model	Constants	Average Percent Error
Ogden 1 st Order	$\mu_1 = 7.1938 \times 10^5 \text{ Pa}$ $A_1 = 1.9225$	1.4%

Standard Hyperelastic Models	Constants	Average Percent Error
Mooney-Rivlin 2-Parameter	$C_{10} = 3.3306 \times 10^5 \text{ Pa}$ $C_{01} = 8.6268 \times 10^3 \text{ Pa}$	1.8%
Yeoh 1st Order	$C_{10} = 3.4138 \times 10^5 \text{ Pa}$	1.6%



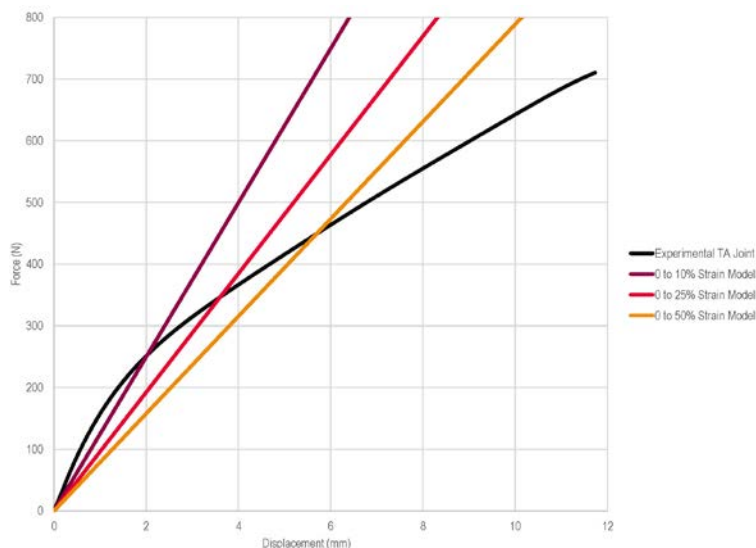
UNRESTRICTED – May be shared with anyone

®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow
DOWSIL™ 993 Structural Glazing Sealant

© 2018 The Dow Chemical Company. All rights reserved.

Linear Approximation Model Data

Strain Range	Linear Elastic Constants
$\epsilon = 0$ to 10%	$E = 2.027 \text{ MPa}$ $\nu = 0.5$
$\epsilon = 0$ to 25%	$E = 1.561 \text{ MPa}$ $\nu = 0.5$
$\epsilon = 0$ to 50%	$E = 1.280 \text{ MPa}$ $\nu = 0.5$



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.

consumer.dow.com

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

