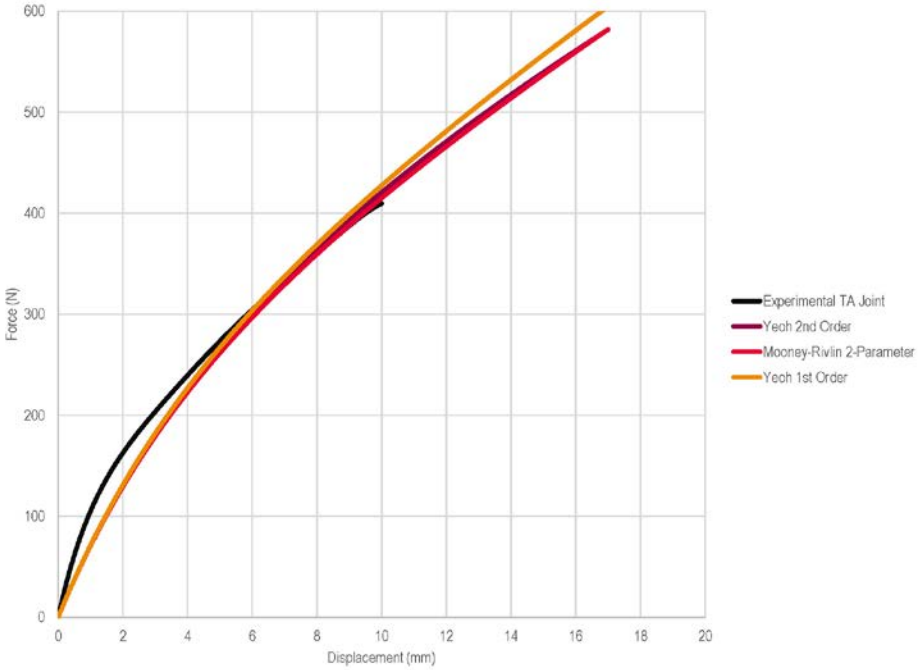
Behavioral Data Sheet

DOWSIL™ 791 Silicone Weatherproofing Sealant

Hyperelastic Model Data

Best Fit Model	Constants	Average Percent Error
Yeoh 2nd Order	C_{10} = 2.1211 x 10^5 Pa C_{01} = -1.1022 x 10^3 Pa	9.4 %

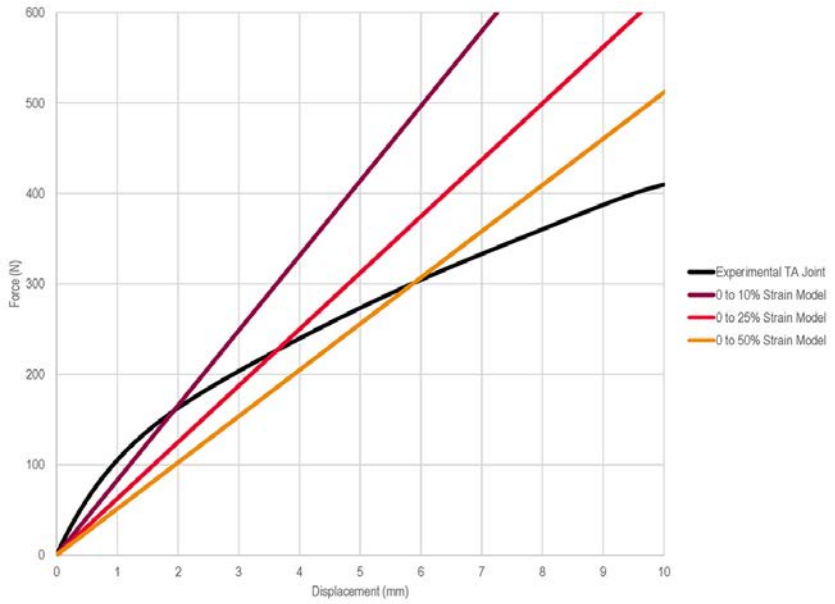
Standard Hyperelastic Models	Constants	Average Percent Error
Mooney-Rivlin 2-Parameter	C_{10} = 1.7873 x 10^5 Pa C_{01} = 3.2657 x 10^4 Pa	9.9 %
Yeoh 1st Order	C_{10} = 2.1223 x 10^5 Pa	9.7 %



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Linear Approximation Model Data

Strain Range	Linear Elastic Constants
ε = 0 to 10%	E = 1.343 MPa ν = 0.5
ε = 0 to 25%	E = 1.013 MPa ν = 0.5
ε = 0 to 50%	E = 0.830 MPa ν = 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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