

Identification of material property: Hardness (65), Damping (Large)

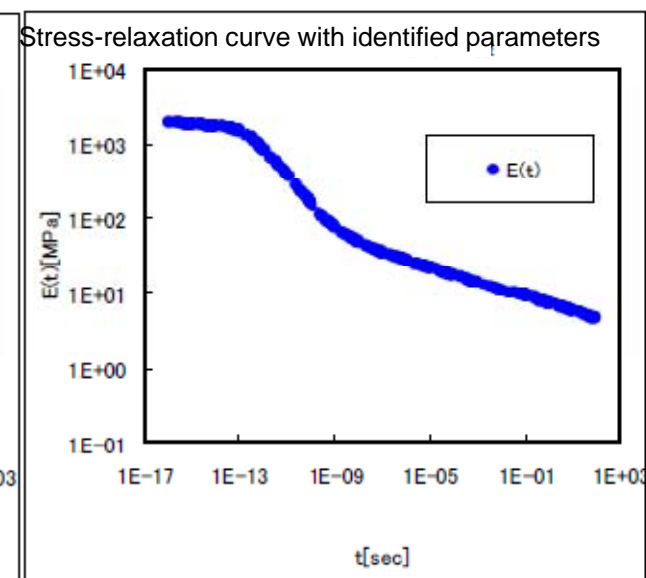
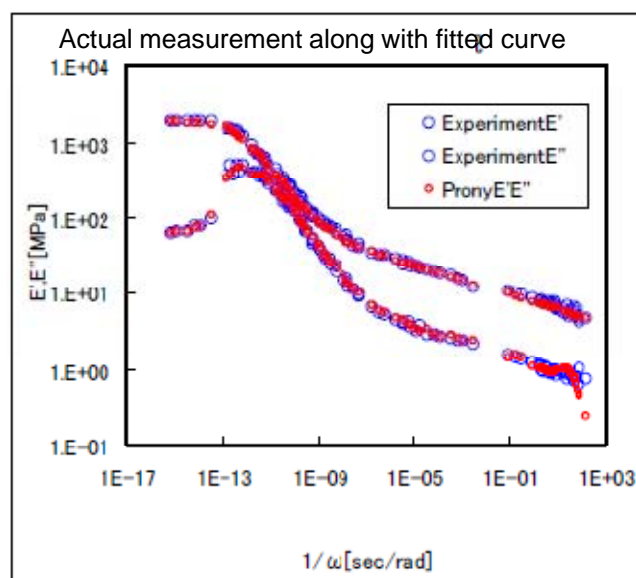
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Young's Modulus[MPa]	Poisson's Ratio[-]
1.96987E+03	4.99000E-01

\bar{g}_1^P [MPa]	τ_1^G [sec]
5.41226E-02	6.36620E-16
4.68481E-02	6.36620E-15
1.14031E-01	1.59155E-13
3.67385E-01	5.30516E-13
2.52517E-01	5.30516E-12
9.86886E-02	5.30516E-11
2.88483E-02	5.30516E-10
1.36523E-02	5.30516E-09
6.30405E-03	5.30516E-08
3.05870E-03	5.30516E-07
2.71341E-03	3.18310E-06
2.27589E-03	3.18310E-05
1.98587E-03	0.00031831
1.92663E-03	0.003183099
8.44767E-04	0.079577472
8.27627E-04	0.265258238
6.04085E-04	1.989436788
9.44875E-04	19.89436788

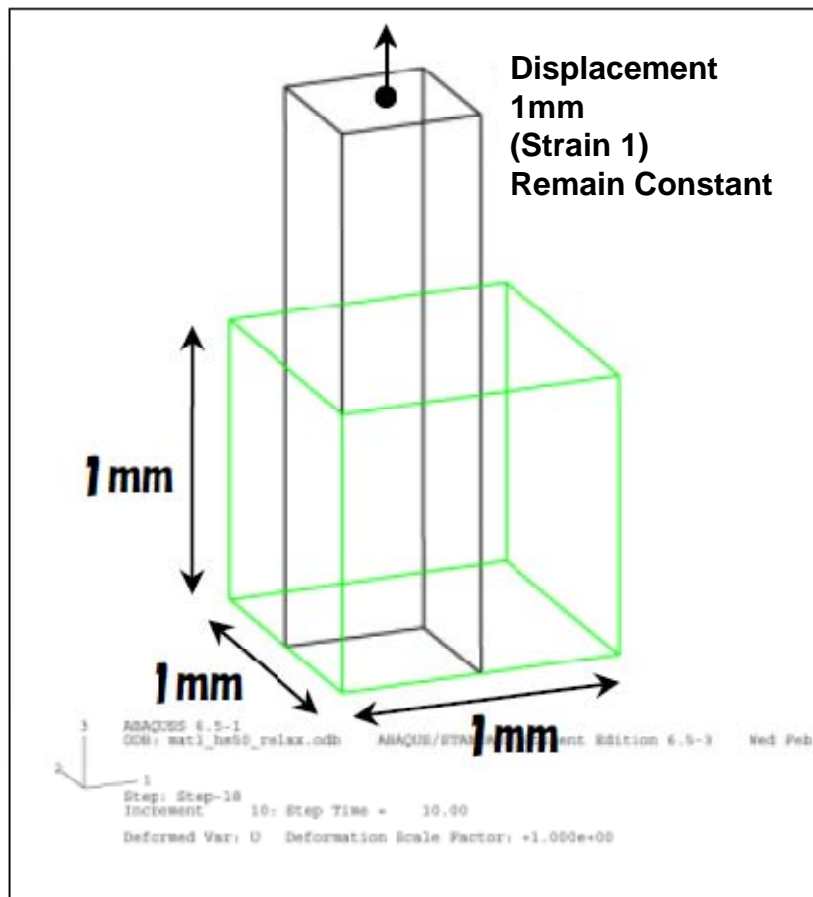
Prony series

$$G(\tau) = G_0 \left\{ 1 - \sum_{i=1}^N \bar{g}_i^P \left(1 - e^{-\tau/\tau_i^G} \right) \right\}, \quad K(\tau) = \infty$$

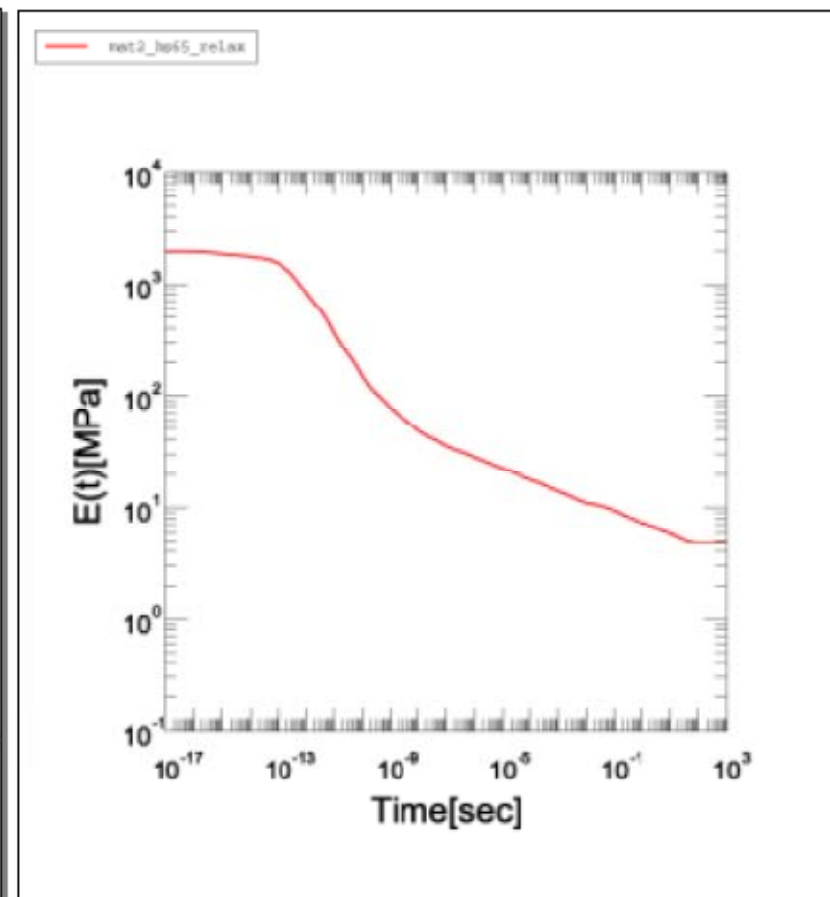


Stress-relaxation analysis : mat2_hs65_relax.inp Hardness (65), Damping (Large)

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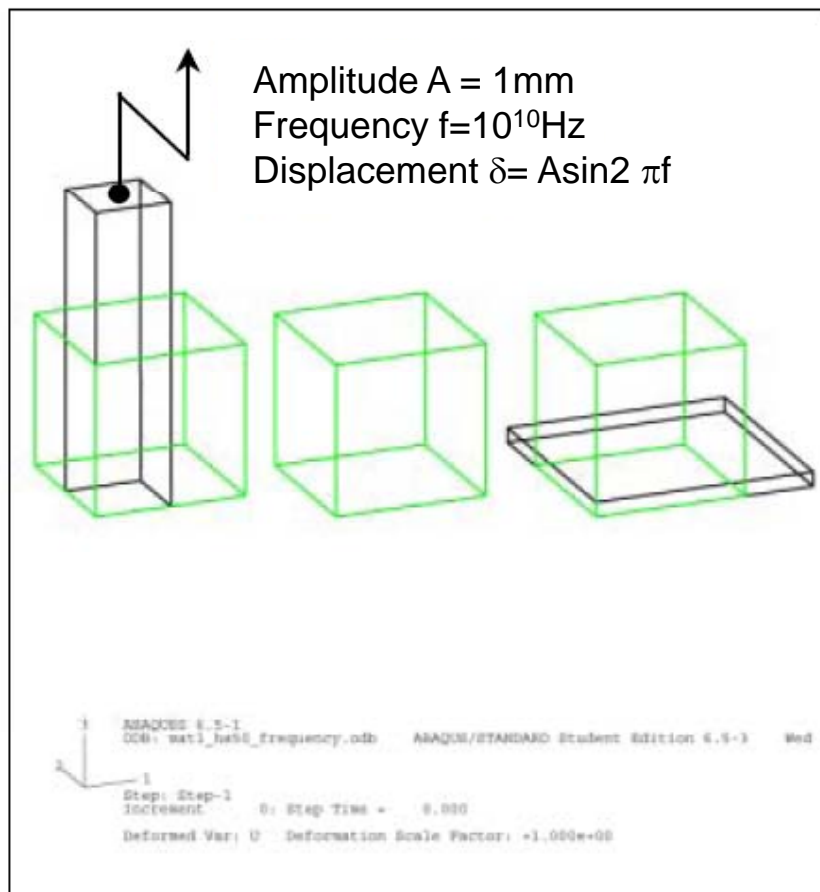
Analysis model



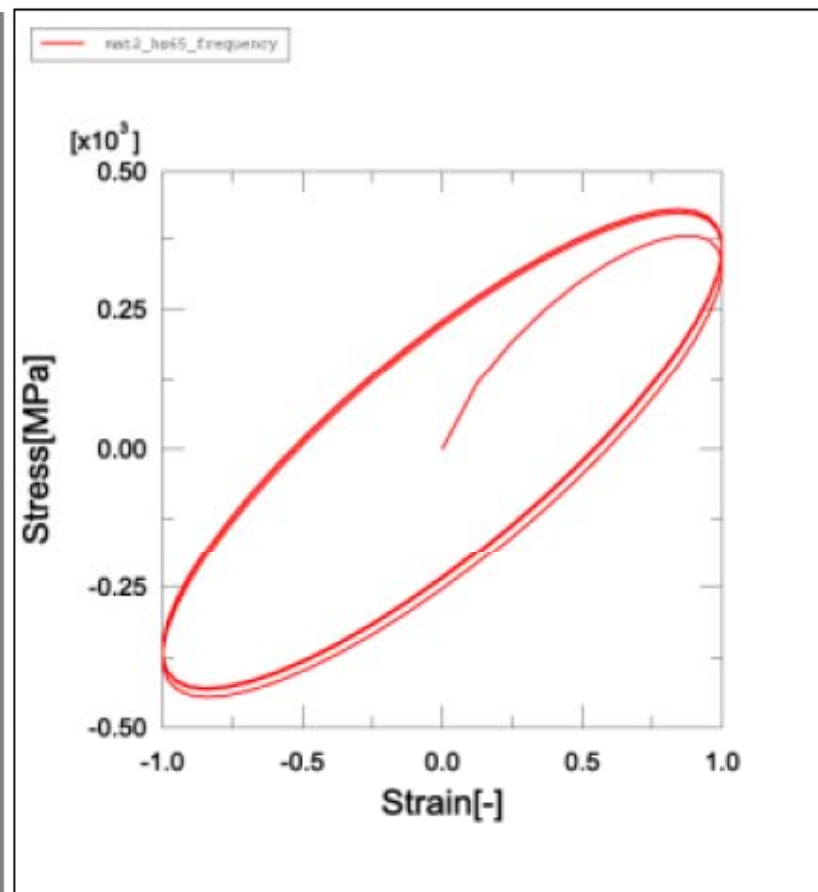
Stress-relaxation curve

Frequency response analysis : mat2_hs65_frequency.inp Hardness (65), Damping (Large)

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Analysis model



Hysteresis curve