

**Physical Properties**

- Orthotropic Coefficient of Thermal Expansion
- Orthotropic Coefficient of Thermal Expansion
- Orthotropic Coefficient of Thermal Expansion
- Rolling Temperature
- Material Dependent Density
- Damping Factor (z)
- Damping Factor (z)
- Speed of Sound
- Viscosity
- Bulk Viscosity

**Linear Elastic**

- Orthotropic Elasticity
- Anisotropic Elasticity
- Viscoelastic
- Anisotropic Temperature Dependent
- Anisotropic Temperature Dependent

**Hyperelastic Experiment Data**

- Uniaxial Test Data
- Biaxial Test Data
- Shear Test Data
- Volumetric Test Data
- Simple Shear Test Data
- Uniaxial Tension Test Data
- Uniaxial Compression Test Data

**Hyperelastic**

- Neo-Hookean

View All Custom...

Contents of Materials: ANSYS Engineering Data

	A	B	C	D	E
1	Contents of Engineering Data				Description
21	Plastic steel (AISI 304)				
22	Polystyrene and PLA				<p>Polystyrene (polystyrene and PLA)</p> <p>Sample materials data from Granta Design. Additional data and information available through the Granta website.</p> <p>Granta provides no warranty for the accuracy of the data.</p>

Properties of Outline Row (2): Polystyrene and PLA

	A	B	C	D	E
1	Property		Value	Unit	
28	Damage Evolution Law				
29	Linear Plasticity Criterion				
36	Critical Mode I Energy Release Rate			J/m <sup>2</sup>	
37	Critical Mode II Energy Release Rate			J/m <sup>2</sup>	
38	Critical Mode III Energy Release Rate			J/m <sup>2</sup>	
39	Brittle Fracture Criterion				
40	Critical Mode I Energy Release Rate			J/m <sup>2</sup>	
41	Critical Mode II Energy Release Rate			J/m <sup>2</sup>	
42	Material Constant n				
43	Reference Thermal Conductivity	0.144		W/m-K @ 300 K	

Table of Properties Row (2): Damage Evolution Criteria

	A	B	C
1	Tensile Film Failure Mode	Compression Film Failure Mode	Tensile Mode

Outline Row (2): Polystyrene and PLA

	A	B	C
1	Value	Details	Progress

# Ansys Engineering Data

**Puja Mehta**



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