

Physical Properties

- Orthotropic Coefficient of Thermal Expansion
- Orthotropic Coefficient of Thermal Expansion
- Orthotropic Coefficient of Thermal Expansion
- Rolling Temperature
- Material Dependent Damping
- 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

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Contents of Materials: ANSYS Engineering Data

	A	B	C	D	E
1	Contents of Engineering Data				Description
21	Plastic and steel (steel)				
22	Plastic and PLA				<p>Polylactide (polylactic acid (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): Polylactic acid (PLA)

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

	A	B	C
1	Value	Details	Progress

Ansys Engineering Data

Lingjun Ying



Ansys Engineering Data:

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