

# MAT8 bulk data entry

- Defines the ply orthotropic properties.
  - Elastic properties are E1, E2, NU12, G12, G1Z, G2Z.
  - Allowables are Xt, Xc, Yt, Yc, S.
  - Use STRN if allowables are in units of strain.
  - F12 is for the Tsai-Wu failure theorem.
  - Thermal coefficients of expansion are A1 and A2.
  - initial temperature is TREF,
  - density is RHO,
  - damping is GE.
- The example below is typical for a graphite/epoxy tape.

1	2	3	4	5	6	7	8	9	10
MAT8	MID	E1	E2	NU12	G12	G1Z	G2Z	RHO	
MAT8	1	20.+6	2.+6	0.35	1.5+6	1.6+6	1.4+6	1.3-4	
	A1	A2	TREF	Xt	Xc	Yt	Yc	S	
	-2.3-7	4.5-6	0.0	1.1+5	1.05+5	1.2+4	1.5+4	2.+4	
	GE	F12	STRN						

.bdf file extract

```
mat8, 1, 20.+6, 2.+6, 0.35, 1.5+6, 1.6+6, 1.4+6, 1.3-4, +
+, -2.3-7, 4.5-6, , 1.1+5, 1.05+5, 1.2+4, 1.5+4, 2.+4
```

# Nastran Mat8 Manual

**PT Brinkman**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the PT Brinkman text.

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