

ANSYS Workbench - Notebook

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ANSYS Workbench - Notebook

1 Material Property Definition

2 Description of Material Properties (SI Units)

MAT1	1	1,+7	.3		
12002	020	1	0.	0.	0.
12003	020	2	.000001	0.	0.
12004	020	3	.000000	0.	0.
12005	020	4	.000000	0.	0.
12006	020	5	.121212	0.	0.
12007	020	6	.151515	0.	0.
12008	020	7	.181818	0.	0.
12009	020	8	.212121	0.	0.
12010	020	9	.242424	0.	0.
12011	020	10	.272727	0.	0.
12012	020	11	.30303	0.	0.
12013	020	12	.333333	0.	0.
12014	020	13	.363636	0.	0.
12015	020	14	.393939	0.	0.
12016	020	15	.424242	0.	0.
12017	020	16	.454545	0.	0.
12018	020	17	.484848	0.	0.
12019	020	18	.515152	0.	0.
12020	020	19	.545453	0.	0.
12021	020	20	.575754	0.	0.
12022	020	21	.606054	0.	0.
12023	020	22	.636364	0.	0.
12024	020	23	.666667	0.	0.
12025	020	24	.69697	0.	0.
12026	020	25	.727273	0.	0.
12027	020	26	.757574	0.	0.
12028	020	27	.787875	0.	0.
12029	020	28	.818182	0.	0.
12030	020	29	.848485	0.	0.
12031	020	30	.878786	0.	0.
12032	020	31	.909091	0.	0.
12033	020	32	.939394	0.	0.
12034	020	33	.969697	0.	0.
12035	020	34	1.	0.	0.
12036	020	35	0.	.000003	0.
12037	020	36	.000003	.000003	0.
12038	020	37	.000003	.000003	0.
12039	020	38	.000003	.000003	0.
12040	020	39	.121212	.000003	0.
12041	020	40	.151515	.000003	0.
12042	020	41	.181818	.000003	0.
12043	020	42	.212121	.000003	0.
12044	020	43	.242424	.000003	0.
12045	020	44	.272727	.000003	0.
12046	020	45	.30303	.000003	0.
12047	020	46	.333333	.000003	0.
12048	020	47	.363636	.000003	0.

ANSYS Workbench - ANSYS Reader

File Edit View Window Help

11/21 / 1/18 100%

Tools Sign Comment Extended

### MAT1 Isotropic Material Property Definition

Defines the material properties for linear isotropic materials.

Format:

MAT1	MID	E	G	NU	RHO	A	TEMP	GE	10
	SI	SC	SC	MCMD					

Example:

MAT1	17	1,+7	0.3	4.2E	4.5-6	5.31-2	0.23		
	20-1	10-1	12-1	1003					

Field	Contents
MID	Material identification number. (Integer > 0)
E	Young's modulus. (Real ≥ 0.0 or blank)
G	Shear modulus. (Real ≥ 0.0 or blank)
NU	Poisson's ratio. See Remark 14. (1.0 - Real ≥ 0.5 or blank)
RHO	Mass density. See Remark 5. (Real)
A	Thermal expansion coefficient. (Real)
TEMP	Reference temperature for the calculation of thermal loads, or a temperature-dependent thermal expansion coefficient. See Remarks 9 and 10. (Real. Default = 0.0 if A is specified.)
GE	Structural element damping coefficient. See Remarks 8, 9, and 4. (Real)
SI, SC, SS	Stress limits for tension, compression, and shear are optionally supplied, used only to compute margins of safety in certain elements, and have no effect on the computational procedures. See "Beam Element (CBEM)" in Chapter 3 of the ANSYS Reference Manual. (Real ≥ 0.0 or blank)
MCMD	Material coordinate system identification number. Used only for PARAM, CURV processing. See Parameters, 107. (Integer ≥ 0 or blank)

Remarks:

- The material identification number must be unique for all MAT1, MAT2, MAT3, MAT4, MAT5, MATORT, MATHE, and MATG entries.
- The following rules apply when E, G, or NU are blank:
  - E and G may not both be blank.
  - If NU and E, or NU and G, are both blank, then both are set to 0.0.

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# Nastran Solution Guide

**Ying Liu**



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