

TABLE AI. (Continued)

Material	Condition	Transition conditions		Technique	Remarks	References
		Stress (GPa)	Compression (%)			
Ferroelectric ceramics						
<i>(Continued)</i>						
95% BaTiO ₃	Polycrystalline	...	...	E-5	Multiple wave structure observed	Reynolds <i>et al.</i> (1961)
5% CaTiO ₃	Polycrystalline	~0.7 GPa	...	E-4	$\rho_0 = 5.52$ to 5.56 Mg/m ³	Doran (1968)
95% BaTiO ₃						
5% CaTiO ₃	Polycrystalline ceramic	~0.2 GPa	...	E-4	$\rho_0 = 7.61$ to 7.89 Mg/m ³	Doran (1968)
Pb(Zr _{0.95} Ti _{0.05})O ₃						
1 wt % Nb ₂ O ₅	Polycrystalline ceramic	...	...	G	Electrical response, multiaxial strain	Lysne (1977)
Pb(Zr _{0.95} Ti _{0.05})O ₃						
Pb _{0.99} Nb _{0.02}	Polycrystalline ceramic	~6	...	G	Electrical response	Lysne <i>et al.</i> (1975)
(Zr _{0.65} Ti _{0.35}) _{0.98} O ₃	Polycrystalline ceramic	~0.3	...	G	Electrical response	Lysne (1975)
Pb _{0.99} Nb _{0.02} [(Zr _{0.70} -Sn _{0.30}) _{0.94} Ti _{0.06}] _{0.98} O ₃						
<i>E. Others</i>						
BaF ₂	[111], [100] crystals	...	...	G-8	Transition uncertain	Dandekar <i>et al.</i> (1973)
LiAlH ₄	Pressed powder	<25	...	E-14	Electrical resistance	Alder and Christian (1956a)
LiAlH ₄	Pressed powder	<5	...	E-14	Electrical resistance	Alder and Christian (1956a)
Teflon	...	0.5±0.01	8.3	G-8	...	Champion (1971)
Fe ₃ O ₄	Crystal	22±2	~8	E, P-4, 2	$\rho_0 = 5.20$ Mg/m ³	Syono <i>et al.</i> (1975)
α Fe ₂ O ₃	Crystal	~80	...	E, P-4, 3	$\rho_0 = 5.26$ Mg/m ³	Syono <i>et al.</i> (1975)
Nb ₃ Sn	...	...	...	...	Synthesis by shock loading	Otto <i>et al.</i> (1971)
Nb ₃ Sn	...	...	...	...	Synthesis by shock loading	Barskii <i>et al.</i> (1972)
Nb-Ge	...	...	...	...	Phases of unknown character synthesized	Barskii <i>et al.</i> (1972)
Nb-Pb	...	...	...	...	Phase of unknown character synthesized	Barskii <i>et al.</i> (1972)
Epoxy	...	...	...	P-2	High pressure transition	Carter (1973b)
Polyimide	...	...	...	P-2	High pressure transition	Carter (1973b)
Polycarbonate	...	...	...	P-2	High pressure transition	Carter (1973b)
Polysulfate	...	...	...	P-2	High pressure transition	Carter (1973b)
AlN	Wurtzite powder	...	...	D-17	ρ_0 from 0.41 to 1.14 Mg/m ³	Vereshchagin <i>et al.</i> (1969b)
Methacrylamide/trioxane	Pressed powder	...	...	D-19	Polymerization at pressures between 1.5 and 3 GPa	Adadurov <i>et al.</i> (1965)
Diphenylbutadiene	Purified, recrystallized pressed powder	...	...	D-19	Polymerization at pressures between 2.8 and 13 GPa	Al'tshuler <i>et al.</i> (1968b)

*Starting material: wt % indicates weight percent, at. % indicates atomic percent. Condition: AR indicates "as received" or no treatment specified; Ann indicates annealed; CR indicates cold rolled; other treatments as specified. Transition conditions: Stress (GPa)—Values quoted are longitudinal component of stress associated with the transition. In those cases where it is difficult to assign a value to the transition but evidence for a transition is given, an entry is made without specific value. Compression (%)—Compression to initiate the transition. Technique: Loading methods: E—plane-wave explosive loading, D—divergent wave explosive loading, P—explosively driven flying plate, G—projectile impact from gun. Numbers indicate instrumentation scheme as numbered in Table I. Remarks: Sample thicknesses in mm, initial sample temperature T_0 if different from room temperature, + indicates the original author quotes an explicit dependence on sample thickness, ϕ indicates a finite rise time, * indicates stress relaxation, τ indicates that shear strength correction is possible from data in the paper, ψ indicates an explicit dependence on driving pressure, ? indicates other authors question data. Reference: Reference as cited at end of paper.

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