

Wood property	Trait	h^2 (1)	<i>Eucalyptus</i> Species	age	Reference
Mechanical	LGS	0.3 to 0.5	<i>E. dunnii</i>	9	Murphy <i>et al.</i> (2003)
	Collapse	0.23 to 0.61	<i>E. nitens</i>	12	Kube and Raymond (2005)
	Wood basic density	0.42 to 0.75	<i>E. dunnii</i>	6.5	Arnold <i>et al.</i> (2004)
	Gross Shrinkage	0.25 to 0.31	<i>E. nitens</i>	9	Hamilton <i>et al.</i> (2009)
	Collapse	0.15 to 0.28	<i>E. nitens</i>	9	Hamilton <i>et al.</i> (2009)
	Log end-splitting index	0.31	<i>E. grandis</i>	8	dos Santos <i>et al.</i> (2004)
Density	Pilodyn	0.3	<i>E. globulus</i>	6	Volker <i>et al.</i> (2008)
	basic density	0.34	<i>E. grandis</i>	8	dos Santos <i>et al.</i> (2004)
	Wood density	0.385 to 0.565	<i>E. pellita</i>	5.5	Susilawati and Fujisawa (2003)
	basic density	0.51 ⁽²⁾	<i>E. nitens</i>	12	Kube <i>et al.</i> (2001)
	basic density	0.24	<i>E. globulus</i>	13	Poke <i>et al.</i> (2006)
	wood density	0.48	<i>E. urophylla</i>	NA	Kien <i>et al.</i> (2009)
	Basic density	0.37 to 0.42	<i>E. nitens</i>	9	Hamilton <i>et al.</i> (2009)
	BD	0.44	<i>E. globulus</i>	NA	Apialoza <i>et al.</i> (2005)
Chemical	acid-soluble lignin content	0.51	<i>E. globulus</i>	13	Poke <i>et al.</i> (2006)
	extractives content	0.35	<i>E. globulus</i>	13	Poke <i>et al.</i> (2006)
	cellulose content	0.54	<i>E. nitens</i>	12	Kube <i>et al.</i> (2001)
	Klason	0.13	<i>E. globulus</i>	13	Poke <i>et al.</i> (2006)
	cellulose content	0.50	<i>E. urophylla</i>	NA	Kien <i>et al.</i> (2009)
	cellulose(%)	0.34 to 0.51	<i>E. nitens</i>	9	Hamilton <i>et al.</i> (2009)
	Cellulose Content	0.84	<i>E. globulus</i>	NA	Apialoza <i>et al.</i> (2005)
Fibre	FL	0.16	<i>E. globulus</i>	NA	Apialoza <i>et al.</i> (2005)
	MFA	0.27	<i>E. globulus</i>	NA	Apialoza <i>et al.</i> (2005)
	microfibril angle	0.293	<i>E. spp</i>	8	Lima <i>et al.</i> (2004)
	fibre length	0.155 to 0.569	<i>E. pellita</i>	5.5	Susilawati and Fujisawa (2003)
	fibre length	0.46	<i>E. nitens</i>	12	Kube <i>et al.</i> (2001)
	fibre coarseness	0.07	<i>E. nitens</i>	12	Kube <i>et al.</i> (2001)
Growth	Diameter	0	<i>E. globulus</i>	13	Poke <i>et al.</i> (2006)
	Diameter at breast height	0.32	<i>E. urophylla</i>	9	Kien <i>et al.</i> (2009)
	height	0.14	<i>E. urophylla</i>	9	Kien <i>et al.</i> (2009)
	DBH	0.19 to 0.34	<i>E. nitens</i>	9	Hamilton <i>et al.</i> (2009)
	DBH	0.20	<i>E. globulus</i>	NA	Apialoza <i>et al.</i> (2005)
	DBH	0.39	<i>E. nitens</i>	12	Kube <i>et al.</i> (2001)
	Log volume under bark	0.10	<i>E. grandis</i>	8	dos Santos <i>et al.</i> (2004)
	Diameter	0.24	<i>E. globulus</i>	6	Volker <i>et al.</i> (2008)

(1): narrow sense heritability

(2): broad sense heritability

References cited:

- Murphy TN, Henson M, Vancley JK: **Growth stress in *Eucalyptus dunnii***. Australian Forestry 2005, 68:144-149
- Kube PD, Raymond CA: **Breeding to minimise the effects of collapse in *Eucalyptus nitens* sawn timber**. Forest Genetics 2005, 12:23-34
- Arnold RJ, Johnson IG, Owen JV: **Genetic variation in growth, stem straightness and wood properties in *Eucalyptus dunnii* trials in Northern New South Wales**. Forest Genetics 2004, 11:1-12
- Hamilton MG, Raymond CA, Harwood CE, Potts BM: **Genetic variation in *Eucalyptus nitens* pulpwood and wood shrinkage traits**. Tree Genetics & Genomes 2009, 5:307-316
- dos Santos PET, Geraldi IO, Garcia JN: **Estimates of genetic parameters of wood traits for sawn timber production in *Eucalyptus grandis***. Genet Mol Biol 2004, 27:567-573
- Volker PW, Potts BM, Borolo NMG: **Genetic parameters of intra- and inter-specific hybrids of *Eucalyptus globulus* and *E. nitens***. Tree Genetics & Genomes 2008, 4:445-460
- Susilawati S, Fujisawa Y: **Family variation on wood density and fiber length of *Eucalyptus pellita* in seedling seed orchard Pleihari, South Kalimantan**. Advances in genetic improvement of tropical tree species. In Proceedings of the International Conference, Yogyakarta, Indonesia, 1-3 October 2002, 2003:53-56
- Kube PD, Raymond CA, Banham PW: **Genetic parameters for diameter, basic density, cellulose content and fibre properties for *Eucalyptus* s**. Forest Genetics 2001, 8:285-294
- Poke FS, Potts BM, Vaillancourt RE, Raymond CA: **Genetic parameters for lignin, extractives and decay in *Eucalyptus globulus***. Ann For Sci 2006, 63:813-821
- Kien ND, Quang TH, Jansson G, Harwood C, Clapham D, Arnold S: **Cellulose content as a selection trait in breeding for kraft pulp yield in *Eucalyptus urophylla***. Ann For Sci 2009, 66:7111-7118
- Apialoza LA, Raymond CA, Yeo BJ: **Genetic variation of physical and chemical wood properties of *Eucalyptus globulus***. Silvae Genet 2005, 54:160-166
- Lima JT, Breese MC, Cahalan CM: **Variation in microfibril angle in *Eucalyptus* clones**. Holzforschung 2004, 58:160-166