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ND/MD

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GARAPA:

Garapa is used in Brasil as a substitute for ITAUBA and MACARANDUBA. It is available in fair volumes throughout Mato Grosso/Rondonia/South-West State of Para, up to Corrientes/Misiones at the Argentinean border.

- Com.Names : GARAPA, Barajuba, Madera Manchada, Cumarurana, Garapeira Garapa Amarella, Pau Setim, Mirajuba, Grapiapunha.
- Bot. Names : Apuleia Leiocarpa (Mato Grosso/Rondonia.)
Apuleia Molaris (Amazonia/Para.) There is hardly any (minor) difference between them.
- Family : Leguminosae.
- Description : Apuleia is a large unarmed tree, occurring from Corrientes/Misiones (Arg.) Throughout most Brazil up to Ecuador + Venezuela. The trees are usually less than 80 feet tall and 3 feet in diameter at maturity but occ. individuals are 100 feet high with a trunk 4 feet through, clear branches up to 50/60 feet. In the Amazon basin they grow upto 160 feet tall.
The fine-textured yellow timber is HIGHLY appreciated for heavy construction, flooring, doorframes, wheelwright work, shafts of vehicles, fence-pots.
Canoes for use in rapids.
Weight at 14-16% MC abt. 700-750 KG/m3.

Heartwood rather lustrous golden yellow to yellowish brown, tending to acquire a reddish or coppery hue upon exposure; sharply demarcated from the thin nearly white sapwood. Generally odour/tasteless when dry. (Dark species slightly rancid) Hard/heavy/tough/strong/ though variable, always being durable. Texture fine and uniform; grain usually roey. Specific gravity around 0,80-0,95. Easy to work and finishing very smoothly, if not wavy-grained. Very Durable.

- 01 = Highly dense grain, with good mechanical properties and a high natural durability.
02A= Medium to rather low shrinkage-coeff. (tang./radial).
02B= Nice aspect both fresh and dry.
05 = Medium to high hardness.
07 = If straightgrained very suitable for joinery/polishing.
08 = Suitable for tools etc, because of very high shock-resistance.
09 = Very suitable for Wagon- and Truckbottoms/constructions, because of it's natural high durability, shockresistance, dense surface which not very abrasif and good mechanical properties.

Sources: Forest Products Yale University/Yale School of Forestry. C.T.F.T. France. I.B.D.F. Brasilia.



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Mechanical properties fresh and 15% MC (source: IBAMA).

	Fresh	15% MC
Static Bending: Modulus of rupture	956 kgf/cm2	1278 kgf/cm2
Static Bending: Modulus of elasticity	144 1000kgf/cm2	173 1000kgf/cm2
Max. Compression : Pararell to the grain	380 kgf/cm2	554 kgf/cm2
Compression : Perpenducular to the grain (Stress at proportional limit)	105 kgf/cm2	151 kgf/cm2
Tension: Perpenducular to the grain (max. compression)= traction	98 kgf/cm2	69 kgf/cm2
Shear: Max. Compression	134 kgf/cm2	180 kgf/cm2
Janka Hardness Parallel	740 kgf	1060 kgf
Janka Hardness End	980 kgf	1130 kgf
Choc-resistance	absorption high	4,08kg/run.m.
Cleavage-resistance	high	11,1 kgf/cm2

