

MORADO

SPECIES IDENTIFICATION

SCIENTIFIC NAME	<i>Machaerium scleroxylon</i> Tul
FAMILY	LEG. PAPILIONOIDEAE
COMMERCIAL NAME	Caviuna
OTHER NAMES	Pau-ferro, Jacarandá-violeta (Brazil)
DISTRIBUTION AREA	Semideciduos forests in the Chiquitania. Department of Santa Cruz
REGION AND FREQUENCY	Very frequent in the Chiquitania and Guarayos

TREE DESCRIPTION

TREETOP	Elongated, with long main branches.
TRUNK	Straight, corrugated, commercial heights up to 25 m
BARK	Whitish color, coarse texture with white spots

GENERAL CHARACTERISTICS

SAPWOOD COLOR	White yellowish	HEARTHWOOD COLOR	Brown chesnut
ODOR	Distinctive	TASTE	Indistinct
LUSTER	Medium	GRAIN	Interlocked
STRIPED	Dark	TEXTURE	Fine

ANATOMIC DESCRIPTION

ANNUAL GROWTH RINGS

Visibility	Visible at sight	Average Number	
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PORES

Visibility	With magnifying glass 10 x	magnifying Porosity	Diffuse
Type	Solitaries and radial multiples	Shape	Slightly oval

PARENCHYMA

Visibility	With magnifying glass 10 x	magnifying Quantity	Scarce
Type	Paratraqueal with centric vessels		

RADIUS

Visibility	With magnifying glass 10 x	magnifying Contrast	Present
Stratification	Present		

PHYSICAL PROPERTIES

MOISTURE CONTENT (GREEN LUMBER)	%
BASIC DENSITY	0,75 g/cm ³
DENSITY (12% MOISTURE CONTENT)	0,88 g/cm ³
RADIAL SHRINKAGE	2,9 %
TANGENTIAL SHRINKAGE	6,7 %
VOLUMETRIC SHRINKAGE	10,6 %
RATE T/R	2,31

MECHANICAL RESISTANCE (with 15% moisture content)

MODULUS OF ELASTICITY	94.1 1000 Kg/cm ²
MODULUS OF RUPTURE	1244 Kg/cm ²
COMPRESSION PARALELL TO GRAIN	614 Kg/cm ²
QUARTEREDSAWED	137 Kg/cm ²
LATERAL HARDNESS	970 Kg
IMPACT BENDING	Kg-m

TECHNNICAL CONDITIONS FOR PROCESSING

MACHINING	Moderately easy. Good finishing
PRESERVATION	Impermeable
NATURAL DURABILITY	Durable when not in contact with soil
DRYING	

END USES

Construction	Decorative Veneer
Doors and window frames	Furniture

Source: MDSP, FAO PAF-BOL, IBAMA, LPF "[Información Técnica para el Procesamiento Industrial de 134 especies maderables de Bolivia](#)". Serie Técnica XI. 2002. (Translated by Fernando Aguilar . Marketing - CADEFOR)