

Eucalyptus Globulus Specifications

E.Globulus wood properties from Australian grown plantation wood

WOOD QUALITY TECHNICAL DATA

Chip Size		Instrument	Specification	Typical Results
+28.6		Kason	<5%	3.7%
-22.2 mm and + 9.5mm		Kason	>55.0%	59.5%
-28.6 mm and +4.8 mm		Kason	>92.0%	95.2%
-4.8 mm		Kason	<3.0%	0.8%
Bark		Kason	<0.5%	0.3%
Rot		Kason	<0.5%	0.0%
+45.0 mm		Chip Class	<2.0%	1.35%
+8.0 mm Slots - Thickness		Chip Class	<8.0%	10.9%
+13.0mm to -45mm (incl thickness)		Chip Class	>82.0%	70.05%
+13.0 mm		Chip Class		59.15%
+13.0 mm to 7.0 mm		Chip Class	>82.0%	81.85%
+3.0 mm		Chip Class	≤6.0%	4.95%
-3.0 mm		Chip Class	≤2.0%	<0.65%
Bark		Chip Class	<0.5%	<0.3%
Rot		Chip Class	<0.5%	0.0%
WOOD DRY MATTER CONTENT		54.0 – 57%		
WOOD BASIC DENSITY		530 to 580 kg/m³		
PULP YIELD		53.0 to 56.0% (o.d. Basis)		
PULPING CHEMICAL DEMAND		15.5 to 17.5% NaOH on o.d. Wood		
DISSOLVING PULP		Property (Units)		Typical Results
Easily converted into Rayon grade dissolving pulp – properties are unbleached pre-hydrolysed kraft pulp @ kappa 8	Screened Pulp Yield (%)		39.0	
	Intrinsic Viscosity (ml/g)		1068	
	Xylan (%)		2.9	
	Hemi-cellulose (%)		3.21	
TYPICAL FIBRE PROPERTIES				
(as measured by Kajaani FS300)	Fibre Length – Lc(l)		0.83 to 0.90 mm	
	Fibre Coarseness		6.8 to 8.0 mg/100 m	
	Fibres/Gram of Pulp		15 to 18 million	
TYPICAL PAPER PROPERTIES		Property (Units)		Typical Results
(interpolated at 250 freeness)	Beating Time (revs/g)		180 to 220	
	Bulk (cm³/g)		1.35 to 1.55	
	Burst index (kPam²/g)		8.0 to 9.0	
	Tear index (mNm²/g)		9.5 to 11.0	
	Tensile index (N.m/g)		110 to 120	
	Stretch (%)		3.0 to 4.0	
	Zero Span Tensile Index (N.m/g)		140 to 150	
	Scattering Co-efficient (kg/m²)		20 to 25	
	Sheffield Air Permeance (Units)		50 to 100	
	Bending Resistance (mN)		70 to 90	