

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/m ³		
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	Property (Units)	Typical Results
(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 (cm ³ /g)	1.35 to 1.55
	Burst index (kPam ² /g)	8.0 to 9.0
	Tear index (mNm ² /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/m ²)	20 to 25
	Sheffield Air Permeance (Units)	50 to 100
Bending Resistance (mN)	70 to 90	