

# E. globulus Specifications

## WOOD QUALITY TECHNICAL DATA

<b>PRODUCT NAME</b>	<b>Eucalyptus globulus</b>	
<b>DESCRIPTION</b>	<i>E.globulus</i> wood properties from Australian grown wood.	
<b>CHIP SIZE</b>	Specification	Typical Results
+28.6 mm	<5%	2%
-22.2 mm and +9.5 mm	>55.0%	67%
-28.6 mm and +4.8 mm	>92.0%	97%
-4.8 mm	<3.0%	2.0%
+45.0 mm	<2%	<1%
+8.0mm Slots - Thickness	<8%	7%
+13.0mm to -45.0 mm	>82.0%	84%
-3.0mm	<2.0%	1.5%
Bark	<0.5%	<0.1%
Rot	<0.5%	<0.1%
<b>WOOD DRY MATTER CONTENT</b>	50.0%	
<b>WOOD BASIC DENSITY</b>	530 to 580 kg/m <sup>3</sup>	
<b>TOTAL PULP YIELD</b>	53.0 to 56.0% (o.d. basis)	
<b>PULPING CHEMICAL DEMAND</b>	15.0 to 17.5 % NaOH on o.d. wood	
<b>DISSOLVING PULP</b>	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 (%)	3.2
<b>TYPICAL FIBRE PROPERTIES</b>		
(as measured by Kajaani FS 300)	Fibre Length - Lc(l)	0.83 to 0.90 mm
	Fibre Coarseness	6.8 to 8.0 mg/ 100m
	Fibres / gram of pulp	15 to 18 million
<b>TYPICAL PAPER PROPERTIES</b>	Property (Units)	Typical Results - Range
(interpolated at 250 freeness)	Beating Time (revs/g)	180 to 220
	Bulk (cm <sup>3</sup> /g)	1.35 to 1.55
	Burst Index (kPam <sup>2</sup> /g)	8.0 to 9.0
	Tear Index (mNm <sup>2</sup> /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 Coefficient (kg/m <sup>2</sup> )	20 to 25
	Sheffield Air Permeance (Units)	50 to 100
	Bending Resistance (mN)	70 to 90