

BIOPLUS INDUSTRIES SDN BHD (628501-T) Plot 303 & 304, Jalan PKNK 3/1, Kawasan Perindustrian Sungai Petani, 08000 Sungai Petani, Kedah, Malaysia Tel: +6-04-448 1900 / 1903 Fax: +6-04-448 1908 Website: <u>www.bioplusind.com</u> E-Mail: <u>marketing@bioplusind.com</u>



PRODUCT DATA

KANJI™ Eco - Friendly Master Batch			
Properties	<u>Units</u>	Test Method	
Melt Index Density Vicat Softening Point	0.23 g/10min 1.240 g/cm ³ 63.6 °C (The softening point may be of testing condition)	D1238 D1505 eighten about 10-20°C because the different	
Character	Generate Bio – Photo Degradable, Free of Heavy Metal Safe to contact with food		
Applications	Packaging- Shopping Bag, Bottle, Garbage bagSport- Golf teeCatering- Spoon, Fork, Plate, Straw, Food trayAgricultural - Mulch Film, Plantation BagStationary- Stationary casing, Corrugated Box, File		
Heavy Metal Analysis Properties Measured	Analysis Result	Equipment / Technique Used	
Cadmium (as Cd); mg/kg	ND (<0.2)	Acid Digestion followed by ICP-AES	
Lead (as Pd); mg/kg Chromium (as Cr); mg/kg Zinc (as Zn); mg/kg Molybdenum (as Mo); mg/kg Copper (as Mo); mg/kg Nickel (as Ni); mg/kg Arsenic (as As); mg/kg Selenium (as Se); mg/kg Mercury (as Hg); mg/kg Fluorine (as F); mg/kg	ND (<0.2) 0.9 2.8 ND (<0.2) 0.3 0.8 ND (2) ND (<0.2) ND (<0.2) ND (<10)	Acid Digestion Followed by Cold Vapor AAS Acid Digestion Followed by Cold Vapor FIMS Bomb Combustion Followed by Ion Chromatography (IC)	

Food And Drug Administration (FDA) Test - I Method of Test	PSB Corporation, Singapore Result	Maximum FDA Requirement
FDA CFR 21, Part 177.1520 Maximum Extractable Fraction in n-Hexane	4.8% by wt	5.5% by wt at 50° C
FDA CFR 21, Part 177.1520 Maximum Soluble Fraction in Xylene	10.9% by wt	11.3% by wt at 25° C
Degradable Analysis Test Method	Test Result	Testing Body
ASTM D 5071-99: Standard Practice for Exposure of Photodegradable Plastic in a Xenon Arc Apparatus.	Tensile Strength Decreases 50 Elongation Break Decrease 80	
ISO 14852: Determination of the ultimate Aerobic Biodegradability of plastic material in an aqueous medium.	94 % of Biodegradation rate a 97 days	fter SIRIM
GB/T 19277-2003	66.2 % of Biodegradable rate 99 days	after NTSQP (China)

*The figures listed in this table are typical values obtained under the standard test methods and may not be applicable for products that are under different application condition.