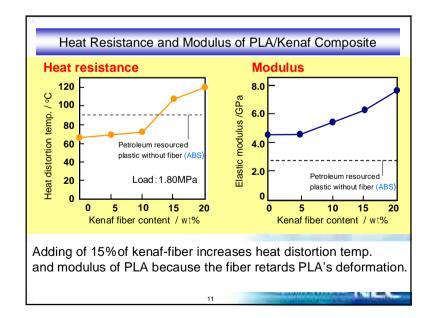
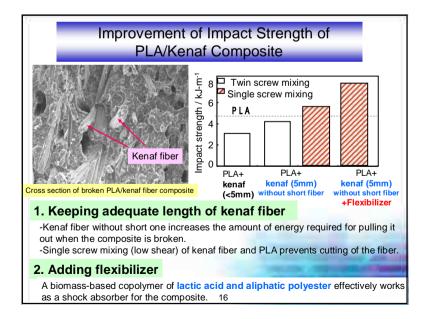
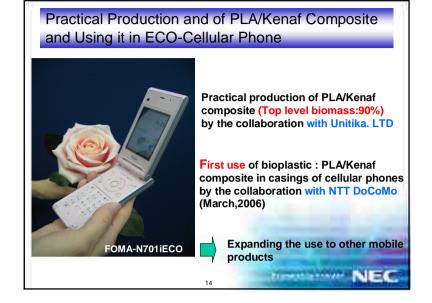


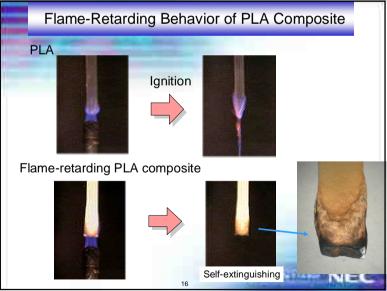
Production of PLA/Kenaf Composite





	Difference		
	PLA	PLA/Kenaf * composite	Polycarbonate with glass fiber
Biomass-content (wt%) without inorganic components	100	90	0
DTUL (0.45MPa) (°C)	58	151	150
Impact strength (kJ/m <sup>2</sup> )	2.7	9.6	10.5
Flexural modulus (GPa)	3.4	4.9	3.1
Flexural strength (MPa)	108	86	93
Gravity (g/cm <sup>3</sup> )	1.27	1.30	1.27





## (2) Flame-Retarding PLA Composite [Accomplishment] Effect of safe flame retardant (a metal hydroxide) -Developing a highly flame-retarding std) PLA composite without toxic chemicals 300 5 such as halogen and phosphorus ec. to expand its use to main electronic 30 products (PC, etc). Target level was Highly flar resistant erage flaming ti 20 cleared [Technical Points] 10 UL std. 0 10 20 30 40 50 60 Level: V-0 a) The PLA with a metal hydroxide (a Special Metal hydroxide Content (wt%) component of soil) achieves high flame retardancy (UL V0) for Special Metal hydroxide the use in housing of electronics products such as PC, etc. b) Unique additives can recover other important characteristics, which are comparable to flame-retarding polycarbonate with GF.

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Absorbing heat during combustion

