

Method for producing graphitic carbon nitride involves thermal polymerization of melamine at a temperature of 550 °C and holding the material at that temperature. Thermal polymerization is carried out by gradually heating melamine in air to a temperature of 300 °C at a rate of 10 °C/min, holding it at that temperature for 1 hour, then increasing the temperature to 550 °C at a rate of 10 °C/min and holding it at that temperature for 1 hour.