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Abstract: Ag-coated zeolite catalyst (Ag/HSZ890HOA) mixed with candle soot (CS) for 1, 10, 30 and 60 min, exhibited T_{max} (temperature according to highest peak of DTA curves) value of 494, 485, 425 and 376/492 °C for T_{0-1} , T_{0-10} , T_{0-30} , T_{0-60} , respectively. Interesting, catalyst mixing with CS for 60 min showed two T_{max} peaks on differential thermal analysis (DTA) curves.