



ASTM D-3895

Oxidation Induction Time of Polyolefins by DSC

A polymer sample (usually Polyethylene) is heated at a constant rate under a nitrogen atmosphere until a specified temperature is reached, then the atmosphere is changed to Oxygen. The sample is then held at constant temperature until the sample begins to oxidize as evidenced by an exothermic rise in the baseline. The time between the introduction of Oxygen and initiation of oxidation is called the oxidative induction time.

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