

Abstract

Disclosed in the present invention are a novel p-phenylenediamine rubber anti-aging agent containing a cycloalkyl structure: N-(3,5,5-trimethylcyclohexyl)-N'-phenyl p-phenylenediamine, and a synthesis method therefor. The present rubber anti-aging agent can increase the vulcanization speed of a rubber material, shorten scorching time, improve heat-resistant oxygen aging performance of the rubber, and at the same time, keep good original physical properties, flexing resistance and dynamic fatigue resistance.