

Abstract

Butyl rubber, a preparation method therefor, and an application thereof, and a composition and rubber product containing the butyl rubber. The butyl rubber comprises a structural unit derived from isobutylene, a structural unit derived from conjugated diene, and a structural unit selectively derived from aryl olefin represented by formula I, at least a part of the conjugated diene being isoprene. Also provided are an automobile tire inner liner, tube and curing bladder made of the butyl rubber. The butyl rubber has good processability and compounding properties, die swell ratio and integrated mechanical properties, and particularly high tear strength. The butyl rubber can effectively reduce power consumption in the processing and compounding process, and the prepared product has good dimensional stability and application performance.

Figure 4