International Standard

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Plastics — Polyether polyols and polymer polyols — Determination of aldehydes and ketones

Plastiques — Polyols de polyéther et polyols de polymère — Détermination des aldéhydes et des cétones

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Foreword

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Introduction

Polyether polyols and polymer polyols are the main raw materials of polyurethane, which are widely used in fields such as sofas, mattresses, car seats and headrests, adhesives, etc. In recent years, environmental policies have become increasingly strict, with the rapid development of the automobile industry, the demand of high-quality polyether and polymer polyols will increase greatly.

Automotive OEMs have limited requirements for formaldehyde, acetaldehyde and acrolein in the whole vehicle and interior parts and materials. Therefore, the manufacturers of vehicle interior require the test report of aldehydes and ketones content (generally including formaldehyde, acetaldehyde and acrolein) in polyether polyols. In order to meet the high requirements of environmental policies and the needs of sustainable development of the industry, it is necessary to establish a method for the determination of aldehydes and ketones content in polyether polyols and polymer polyols.