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Plastics — Determination of xylene-soluble matter in polypropylene

Plastiques — Détermination des matières présentes dans le polypropylène solubles dans le xylène

Reference number
ISO 16152:2005(E)

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Foreword

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ISO 16152 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

It replaces ISO 6427:1992, Annex B, which has been technically revised. The revised method tightens the physical parameters of the test to provide improved repeatability and reproducibility.

Introduction

This International Standard specifies a method for the quantitative determination of those components of polypropylene that are soluble in xylene. This new method defines more precisely the factors that have the greatest influence on the repeatability and reproducibility of the determination. The polypropylene is dissolved in hot xylene, then cooled under controlled conditions down to 25 °C, which results in the precipitation of the insoluble fraction. The soluble matter remains in the xylene. The xylene is then evaporated and the residue weighed. The solubles content of polypropylene is important as it has a major influence on the properties of the polypropylene.