

Acoustic Properties of Flexible Polyurethane Foams with Varying Grafted Polyol Contents

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Flexible polyurethane foams have various properties and therefore using for many applications. Because market of its application about sound absorbent is now growing rapidly, research on sound absorption property of flexible polyurethane foam is important. In this study, grafted polyether polyol is used for improving acoustic properties of flexible polyurethane foams. Sound absorption coefficient is measured by transfer function method using impedance tube. And cell morphology is analyzed by scanning electron microscopy (SEM). Mechanical properties of foams are characterized by universal testing machine (UTM). Openness of cell is tested by air flow resistivity tester (AFR).