



Silicone Elastomers (Rapra Review Reports)

Peter Jerschow

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Silicone elastomers are important materials for many application areas such as automotive, electric and electronics, domestic appliances and medical. They are increasingly being used to substitute for organic rubbers, because of their advantageous properties.

This is a very comprehensive review of the state-of-the-art in silicone elastomers. It deals with the advantages of using silicone rubbers, such as high temperature and chemical resistance, pigmentability and transparency, combined with good electrical properties.

It describes processing by extrusion, injection moulding and calendering, and the use of silicones in flexible and rigid mould making. The key issues concerning the processing of silicones are addressed here.

The key material types and the nomenclature used to describe silicones are explained. Room temperature vulcanised (RTV), high temperature vulcanised (HTV) and liquid silicone rubbers (LSR) are all discussed.

Speciality silicones are continually being developed to meet specific application requirements, for example, standard silicone is a good electrical insulator and is used in cable coverings, however, conductive silicones are now available. These new grades of silicones are described and compared to standard grades for key performance issues.

This review is packed with details on specific silicone materials, containing over 50 tables of information together with useful graphs. It is much longer than the usual reviews in this series.

The review is accompanied by around 400 abstracts from the Rapra Abstracts database, to facilitate further reading on this subject.

Key features...

- * Applications
- * Property requirements of applications
- * Properties of standard and speciality elastomers
- * Basic chemistry
- * Curing
- * Processing
- * Useful tables of data

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