ISO 18280:2010-09 (E)

Plastics - Epoxy resins - Test methods

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Description of test methods 2
3.1 Physical properties 2
3.1.1 Determination of the melting range 2
3.1.2 Determination of the softening point 3
3.1.3 Determination of density 3
3.1.4 Determination of refractive index 4
3.1.5 Determination of viscosity 4
3.1.6 Determination of tendency to crystallize 4
3.1.7 Determination of overall volume shrinkage 4
3.1.8 Determination of the flash point 5
3.1.9 Estimation of colour 5
3.2 Chemical properties 5
3.2.1 Determination of epoxy equivalent 5
3.2.2 Determination of chlorine content 5
3.2.3 Determination of 1,2-glycol content 6
3.2.4 Determination of the electrical conductivity of aqueous resin extracts 6
3.2.5 Determination of ash 7
3.2.6 Determination of primary, secondary and tertiary amine group nitrogen content in amine epoxy hardeners 7
3.2.7 Determination of free acid in acid anhydride hardeners and accelerators 8
3.2.8 Non-volatile-matter content 8

Annex A (informative) List of test methods for each property 9

Bibliography 10