ISO 11833-1:2019-07 (E)

Plastics - Unplasticized poly(vinyl chloride) sheets - Part 1: Types, dimensions and characteristics for sheets of thickness not less than 1 mm

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinition 2

4 Material 2

5 Classification 2

6 Requirements 2
6.1 Masking 2
6.2 Appearance 2
6.3 Dimensions 3
6.3.1 Length and width 3
6.3.2 Rectangularity 3
6.3.3 Thickness 4
6.4 Basic properties 4
6.5 Other mechanical and physical properties 6
6.6 Chemical and physiological properties 6
6.6.1 Flammability 6
6.6.2 Chemical resistance 6
6.6.3 Physiological behaviour 6

7 Test methods 6
7.1 General 6
7.1.1 Sampling 6
7.1.2 Preparation of specimens 6
7.1.3 Conditioning and testing of specimens 7
7.2 Appearance examination 7
7.3 Dimensions 7
7.4 Mechanical properties 8
7.4.1 Tensile stress at yield and nominal strain at break 8
7.4.2 Modulus of elasticity in tension 8
7.4.3 Charpy impact strength of notched specimens 9
7.5 Thermal properties 9
7.5.1 Vicat softening temperature 9
7.5.2 Dimensional change on heating and resistance to delamination 9
7.6 Total luminous transmittance 11
7.7 Other mechanical and physical properties 11
7.7.1 Charpy impact strength of unnotched specimens 11
7.7.2 Temperature of deflection under load 11
7.7.3 Creep modulus 11
7.7.4 Density 11
7.7.5 Flexural strength 12
7.7.6 Ball indentation hardness 12
7.7.7 Volume resistivity 12

8 Marking 12

Annex A (informative) Determination of resistance to delamination of thick pressed sheets using a wedge 13

Annex B (informative) Determination of resistance to delamination of thick pressed sheets by thermal bending 15