DIN EN ISO 15015:2026-05 (E)

Plastics - Extruded sheets of impact-modified acrylonitrile-styrene copolymers (ABS, AEPDS and ASA) - Requirements and test methods (ISO 15015:2025)

Contents

Page

Foreword ..... **iv**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **2**

4 Material **2**

5 Requirements **2**
5.1 Appearance 2
5.2 Dimensional tolerances 2
5.2.1 Thickness 2
5.2.2 Length and width 2
5.2.3 Rectangularity 3
5.2.4 Bow of sheets in rolled form 3
5.3 Properties 3
5.3.1 Mechanical and thermal properties 3
5.3.2 Behaviour on heating 4
5.3.3 Physiological behaviour 4

6 Test methods **5**
6.1 Test specimens 5
6.1.1 Preparation of test specimens 5
6.1.2 Conditioning 5
6.1.3 Test conditions 5
6.2 Delivery condition 5
6.3 Appearance 5
6.4 Dimensions 5
6.4.1 Thickness, h 5
6.4.2 Length, l, and width, b 6
6.4.3 Rectangularity 6
6.4.4 Bow of sheets in rolled form 6
6.5 Density 6
6.6 Mechanical properties 6
6.6.1 Tensile stress at yield, σ_y 6
6.6.2 Modulus of elasticity in tension, E_t 6
6.6.3 Charpy impact strength of unnotched specimens, a_{cu} 6
6.6.4 Charpy impact strength of notched specimens, a_{cn} 6
6.6.5 Ball indentation hardness 6
6.6.6 Melt mass-flow rate (MFR) 6
6.7 Thermal properties 7
6.7.1 Vicat softening temperature 7
6.7.2 Determination of shrinkage on heating 7

7 Designation **8**
7.1 Example for ABS sheets 8
7.2 Example for ASA sheets in rolled form 9

8 Marking **9**

Annex A (informative) **Additional guide values** **10**

Bibliography **11**