

ISO 15015:2025-11 (E)

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

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