

ISO 62:2008-02 (E)

Plastics - Determination of water absorption

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Principle	2
4	Apparatus	2
5	Test specimens	2
5.1	General	2
5.2	Square-shaped test specimens for homogeneous plastics	3
5.3	Test specimens of reinforced plastics affected by anisotropic diffusion effects	3
5.4	Tubular test specimens	3
5.5	Rod-shaped test specimens	4
5.6	Specimens cut from finished products, extrusion compounds, sheets or laminates	4
6	Test conditions and procedures	4
6.1	General	4
6.2	General conditions	4
6.3	Method 1: Determination of amount of water absorbed after immersion in water at 23 °C ...	5
6.4	Method 2: Determination of amount of water absorbed after immersion in boiling water	5
6.5	Method 3: Determination of water-soluble matter lost during immersion	6
6.6	Method 4: Determination of amount of water absorbed after exposure to 50 % relative humidity	6
7	Expression of results	6
7.1	Percentage by mass of water absorbed	6
7.2	Determination of the water content at saturation and the water diffusion coefficient using Fick's laws	7
8	Precision	8
9	Test report	9
Annex A (informative)	Correlation between water absorption by test specimens and Fick's diffusion laws	10
Annex B (informative)	Precision statement	12
Bibliography		15