



NSAI
Standards

Irish Standard
I.S. EN 13045:2009

Packaging - Flexible cylindrical plastic tubes - Dimensions and tolerances

I.S. EN 13045:2009

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English Version

Packaging - Flexible cylindrical plastic tubes - Dimensions and tolerances

Emballage - Tubes souples cylindriques plastiques -
Dimensions et tolérances

Packmittel - Zylindrische Kunststofftuben - Maße und
Grenzabmaße

This European Standard was approved by CEN on 19 March 2009.

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Foreword

This document (EN 13045:2009) has been prepared by Technical Committee CEN/TC 261 "Packaging", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2009, and conflicting national standards shall be withdrawn at the latest by October 2009.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13045:2000.

It is based on the professional recommendations of the European Tube Manufacturers Association (ETMA).

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This standard specifies the diameter, length, wall thickness and shoulder geometry of cylindrical plastic flexible tubes.

It is applicable to tubes used for packing pharmaceutical, cosmetic, hygiene, food and other domestic and industrial products.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12374, *Packaging - Flexible tubes – Terminology*

3 Terms and definitions

For the purposes of this standard, the terms and definitions in EN 12374 and the following apply:

3.1

nominal diameter, D

diameter d_1 of the tube measured at the shoulder

3.2

nominal length, L

measured distance between the shoulder and the open end of the tube

NOTE Length l_1 shown in Figure 1.

3.3

thickness of the sleeve, S_1

thickness of the body wall of the tube

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