



NSAI
Standards

Irish Standard
I.S. EN 4840-102:2019

Aerospace series - Heat shrinkable
moulded shapes - Part 102: Elastomeric,
semi-rigid, temperature range -75 to 150
°C - Product Standard

I.S. EN 4840-102:2019

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NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

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National Foreword

I.S. EN 4840-102:2019 is the adopted Irish version of the European Document EN 4840-102:2019, Aerospace series - Heat shrinkable moulded shapes - Part 102: Elastomeric, semi-rigid, temperature range -75 to 150 °C - Product Standard

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EUROPEAN STANDARD

EN 4840-102

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2019

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English Version

**Aerospace series - Heat shrinkable moulded shapes - Part
102: Elastomeric, semi-rigid, temperature range -75 to 150
°C - Product Standard**

Série aérospatiale - Manchons thermorétractables -
Partie 102 : Semi-rigides en élastomère, plage de
température de -75 à 150 °C - Norme de produit

Luft- und Raumfahrt - Wärmeschrumpfende Formteile
- Teil 102: Elastomer, halbsteif, Temperaturbereich -75
°C bis 120 °C - Produktnorm

This European Standard was approved by CEN on 13 October 2019.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 4840-102:2019) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2020, and conflicting national standards shall be withdrawn at the latest by June 2020.

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

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EN 4840-102:2019 (E)

Scope

This document specifies the required characteristics for heat-shrinkable elastomeric semi-rigid, boots for use in aircraft electrical systems at operating temperatures between -75 °C and 150 °C.

The moulded shapes may be supplied with a pre-coated adhesive. Refer to the manufacturers/suppliers for options. A guide to adhesive compatibility is given in Annex A (informative).

These moulded shapes are normally supplied in the styles and dimensions given in EN 4840-002 Table 1 to Table 22. The colour is normally black.

Styles and dimensions other than those specifically listed in EN 4840-002 Table 1 to Table 22 may be available as custom items. These items shall be considered to comply with this standard if they comply with the property requirements listed in Table 1 with the exception of dimensions.

1 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 3909, *Aerospace series — Test fluids and test methods for electrical and optical components and sub-assemblies*

EN 4840-001, *Aerospace series — Heat shrinkable moulded shapes — Part 001: Technical specification*

EN 4840-002, *Aerospace series — Heat shrinkable moulded shapes — Part 002: Index of product standards and product dimensions*

ISO 1817:2005, *Rubber, vulcanized or thermoplastic — Determination of the effect of liquids*

IEC 60757:1983, *Code for designation of colours*

IEC 62329-1, *Heat shrinkable moulded shapes — Part 001: Definitions and general requirements*

IEC 62329-2, *Heat shrinkable moulded shapes — Part 002: Methods of test*

2 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62329-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <http://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3 Required characteristics

3.1 Dimensions and mass

See EN 4840-002.

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