Belgian Standard

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

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

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EN 4840-102:2019 (E)

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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of an identical text or by endorsement, at the latest by June 2020, and conflicting national standards shall be withdrawn at the latest by June 2020.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)

1 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.

2 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

3 Terms and definitions

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

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

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

4 Required characteristics

4.1 Dimensions and mass

According to EN 4840-002.