ISO<u>/PRF</u> 6916-2:2024(en

ISO-<u>/</u>TC-<u>45/SC-</u>4/WG-8 Secretariat:-<u>DSM</u> Date: 2024-<u>02-05x</u>x

Flexible cellular polymeric materials — Sponge and expanded cellular rubber products —

iTeh Standards

Specification — Part 2: Mouldingsfor mouldings and extrusions Polymères alvéolaires souples — Caoutchoucs alvéolaires mousses et souples — Spécifications — Partie 2: MoulageSpécification pour les moulages et extrusionles extrusions

Part 2:

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| This document classifies flexible cellular rubber products known as sponge and expanded rubber. The ba material used in their manufacture may be natural rubber, reclaimed rubber, synthetic rubber or rubber-lii material, either alone or in combination. Thermoplastic rubbers are not included. This document does n apply to latex foam rubbers or shoe soling. | se ce ot | | |
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<std>ISO 1923, Cellular plastics and rubbers — Determination of linear dimensions</std>

<<u>std>ISO 3865, Rubber, vulcanized or thermoplastic Methods of test for staining in contact with organic</u> material</std>

<std>ISO 188, Rubber, vulcanized and thermoplastic — Accelerated ageing and heat resistance tests

<u>ISO 815-1, Rubber, vulcanized or thermoplastic — Determination of compression set — Part 1: At ambient or elevated temperatures</u>

ISO 1431-1, Rubber, vulcanized or thermoplastic — Resistance to ozone cracking — Part 1: Static strain test

ISO 1817, Rubber, vulcanized — Determination of the effect of liquids

ISO 1923, Cellular plastics and rubbers — Determination of linear dimensions

ISO 3865, Rubber, vulcanized or thermoplastic — Methods of test for staining in contact with organic material

ISO 5893, Rubber and plastics test equipment — Tensile, flexural and compression types (constant rate of traverse) — Specification </std>

3 Terms and definitions

No terms and definitions are listed in this document.

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

IEC Electropedia: available at <u>https://www.electropedia.org/</u>

— ——ISO Online browsing platform: available at <u>https://www.iso.org/obp</u>https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/ ISO/PRF 6916-

4 Classification (types, classes, grades and suffixes) 0/ee914167-c8b9-4501-944

4.1 Types

Three types are specified, as follows:

- Type 1: open-cell rubber;
- Type 2: closed-cell rubber;
- — Type 3: self-skinned cellular rubber.

4.2 Classes

Each type is divided into four classes designated by the letters A, B, C and D (for example type 1B), as follows:-

 — Class A: cellular rubbers made from natural rubber, where specific resistance to the action of petroleum-based oils is not required;

— — Class B: cellular rubbers having specific requirements for oil resistance with low swell;

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ISO/PRF 6916-2:2024(en) Formatted: Font: 11 pt, Bold Formatted: Font: 11 pt, Bold Formatted: Font: Bold -Class C: cellular rubbers having specific requirements for oil resistance with medium swell; Formatted: HeaderCentered, Left -Class D: cellular rubbers made from synthetic rubber or rubber-like materials, either alone or in combination, having specific requirements for both low- and high-temperature resistance (-75 °C to +250 °C), but where specific resistance to the action of petroleum-based oils is not required. 4.3 Grades Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab Each class is divided into seven different grades based on a specific range of firmness as expressed by stops: Not at 0.71 cm compression deflection determined as described in Annex B. Annex B. Grades are designated by a digit (0 to Formatted: Adjust space between Latin and Asian text, 6), with the softer grades being identified with the lower numbers and the harder grades with the higher Adjust space between Asian text and numbers numbers: — ——Grade 0: for type 1 cellular rubbers only, a compression deflection range of 2,5 kPa to 15,0 kPa; Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab -Grade 1: a compression deflection range of 15,1 kPa to 35,0 kPa; stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm — Grade 2: a compression deflection range of 35,1 kPa to 65,0 kPa; Formatted: Adjust space between Latin and Asian text, ----Grade 3: a compression deflection range of 65,1 kPa to 95,0 kPa; Adjust space between Asian text and numbers, Tab stops: Not at 0.71 cm —Grade 4: a compression deflection range of 95.1 kPa to 125.0 kPa; Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab ----Grade 5: a compression deflection range of 125,1 kPa to 200,0 kPa; stops: Not at 0.71 cm + 0.99 cm + 1.27 cm Formatted: Adjust space between Latin and Asian text, — — Grade 6: a compression deflection range of 200,1 kPa to 300,0 kPa. Adjust space between Asian text and numbers 4.4 Suffixes Formatted: Default Paragraph Font Formatted: Adjust space between Latin and Asian text, 4.4.1 Suffix letters Adjust space between Asian text and numbers, Tab stops: Not at 0.71 cm + 0.99 cm + 1.27 cm Suffix letters may be added singly or in combination after any grade number to indicate additional Formatted: Adjust space between Latin and Asian text, requirements beyond those specified in Tables 1 Tables 1 to 33 as basic requirements. The significance of the Adjust space between Asian text and numbers approved suffix letters is shown in Table 4. Table 4. Formatted: Adjust space between Latin and Asian text, 4.4.2 Suffix numbers Adjust space between Asjan text and numbers. Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + Each suffix letter should preferably be followed by a suffix number. The suffix number indicates the particula 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm test conditions. The test duration is part of the method and is taken from the listing in Table 5. Table 5. Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers NOTE ProductsRegarding products meeting requirements defined to the suffix number level should conform wit Formatted: Adjust space between Latin and Asjan text. national and supra-national health and safety regulations can apply. Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 5 Material and workmanship 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm 5.1 Cellular rubbers produced to this document shall be manufactured from natural rubber, synthetic Formatted: Font: 10 pt rubber, reclaimed rubber or rubber-like material, together with added compounding ingredients of such Formatted: Font: 10 pt nature and quality that the product complies with the requirements of this document. Formatted: Font: 10 pt 5.2 In permitting choice in the use of materials, it is not intended to imply that the resulting different rubber Formatted: FooterCentered, Left, Space Before: 0 pt, materials are equivalent in respect of all physical properties. Any special characteristics other than those Line spacing: single, Tab stops: Not at 17.2 cm specified in this document that may be desired for a specific application shall be detailed in the particular Formatted: Font: 11 pt, Not Bold product specification. All materials and workmanship shall be in accordance with good commercial practice, Formatted: FooterPageRomanNumber, Left, Space and the resulting cellular rubbers shall be free from defects affecting serviceability. After: 0 pt, Line spacing: single, Tab stops: Not at 17.2

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| <u>ISO/PRF 6916-2:2024(en)</u> | Formatted: Font: Bold |
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| 6 Physical properties | Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers |
| given in Fables 1 tables 1, to 3,3, together with any additional requirements indicated by any suffix letter as | Formatted: Default Paragraph Font |
| described in Table 4 Table 4 and any suffix number given in the designation as described in 3.4 4.4. | Commented [eXtyles9]: No section matches the in-text |
| 7 Methods of test | citation "3.4". Please supply the missing section or delete the citation. |
| 7.1 Unless specifically stated otherwise, all tests shall be carried out in accordance with the methods specified in the annexes to this document. <u>Annexes A to G</u> . | Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + |
| 7.2 Test pieces shall not be tested for at least 72 h after manufacture. Prior to testing, the test pieces shall be stored for at least 16 h at either (23 ± 2) °C and (50 ± 5) % relative humidity or (27 ± 2) °C and (65 ± 5) % relative humidity. This period may form the latter part of the period following manufacture. | 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm |
| 8 Dimensional tolerances | Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers |
| The tolerances allowable on the dimensions of cellular rubber in moulded and extruded form shall be as specified in Table 6. Table 6. | |
| 9 Inspection and rejection | |
| 9.1 All tests and inspections shall be made at the place of manufacture prior to shipment, unless otherwise specified. The manufacturer shall afford the inspector all reasonable facilities for tests and inspections. | Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab |
| 9.2 The purchaser may carry out the tests and inspections governing acceptance or rejection of the material at his own laboratory or elsewhere. Such tests and inspections shall be made not later than 15 days after receipt of the material. | 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm |
| 9.3 All test pieces prepared as specified in <u>Clause 11 Clause 12</u> shall be visually inspected to determine compliance with the material, workmanship and colour requirements. | |
| 9.4 Any material that fails one or more of the test requirements may be re-tested. For this purpose, two additional tests shall be made for the requirement for which failure occurred. Failure of either of the re-tests shall be cause for final rejection. | |
| 9.5 Rejected material shall be disposed of as directed by the manufacturer. | |
| 10 Packaging and marking | Formatted: Adjust space between Latin and Asian text, |
| The material shall be properly and adequately packaged. Each package or container shall be legibly marked with the name of the material, the name or trademark of the manufacturer, and any required purchaser's designations. | Adjust space between Asian text and numbers |
| 11 Sampling | |
| 11.1 When possible, the complete finished product shall be used for the tests specified. Representative samples of the lot being examined shall be selected at random as required. | Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab |
| 11.2 When it is necessary or advisable to obtain test pieces from the article, as in those cases where the finished product is not required or suitable for testing, the method of cutting and the exact position from which test pieces are to be taken shall be specified. The apparent density and the state of cure may vary in different parts of the finished product, especially if the article is of complicated shape or of varying thickness, and these | 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm |
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