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भारतीय मानक मसौदा
प्लास्टिक सरवाइकल कॉलर – विशिष्टि

(IS 12304 का पहला पुनरीक्षण)

Draft Indian Standard

Plastic Cervical Collar – Specification

(First Revision of IS 12304)

ICS 11.040.40

Orthopaedic Instruments, Implants and
Accessories Sectional Committee, MHD 02

Last date for comments: **18 August 2023**

FOREWORD

(Formal clause will be added later)

This standard was originally published in 1987. The first revision of this standard has been brought out to align the cross references to latest standards.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with IS 2: 2022 ‘Rules for rounding off numerical values (*second revision*)’. The number of significant places retained in the rounded off value should be same as that of the specified value in this standard.

1 SCOPE

This standard specifies the requirements for plastic cervical collar.

2 REFERENCES

The standards given below contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of these standards.

<i>IS No.</i>	<i>Title</i>
IS 1720: 1978	Specification for cotton sewing threads (<i>first revision</i>)
IS 4274: 1981	Specification for buckles (<i>first revision</i>)
IS 7328: 2020	Specification for Polyethylene material for moulding and extrusion (<i>third revision</i>)
IS 8156: 2014	Fasteners for consumer goods – Synthetic hook and loop tape – Specification (<i>third revision</i>)

3 MATERIAL

3.1 Plastic Collar

The plastic collar shall be made of high density polyethylene conforming to IS 7328. The strip thickness shall be not less than 1.5 mm.

3.2 Sewing Thread

Cotton sewing thread of 60s/6 (100 dtex × 6) conforming to Variety No. 31 of IS 1720.

4 SHAPE AND DIMENSIONS

The shape and dimensions of the collar shall be as per the requirement. However, a typical collar is shown in Fig. 1.

5 REQUIREMENTS

5.1 The cervical collar shall be free from any manufacturing defects.

5.2 The cervical collar shall be tailored neatly. The plastic collar shall be neatly cut to the required size and arranged to form a uniform thickness throughout without any wrinkles or distortions.

5.3 The plastic collar shall be translucent.

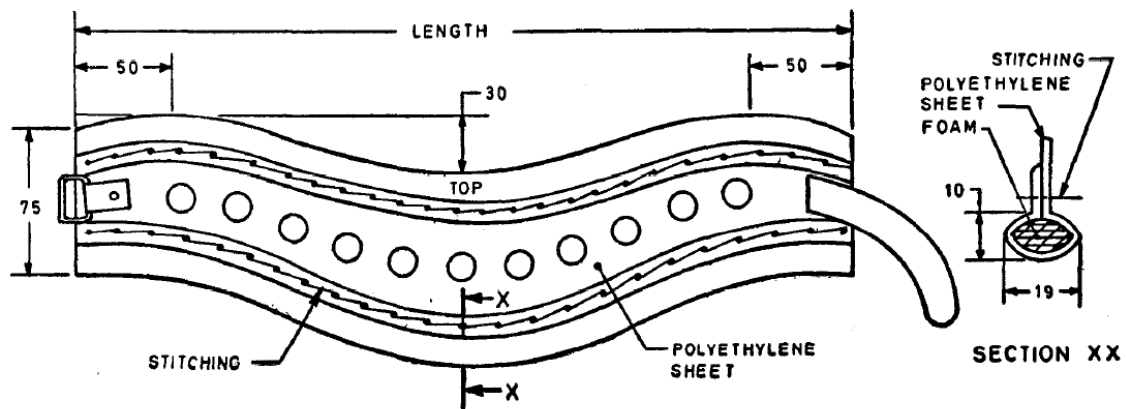
5.4 The plastic collar shall be padded with foam leather to ensure maximum comfort. The foam leather should be non-irritant.

5.5 The collar when worn shall not give any uncomfortable feeling.

5.6 The collar shall be provided with small holes for ventilation.

5.7 The length of the collar shall be adjustable to the patient's neck size by means of fastener.

5.8 The ends of the collar shall be provided with suitable fastening device like hook and loop tape fastener, and leather strap with buckle. The hook and loop tape fastener shall conform to IS 8156 with tape having minimum width of 2.5 cm and overlap of 2.5 cm. The buckle shall conform to IS 4274.



All dimensions in millimetres

Fig. 1 PLASTIC CERVICAL COLLAR

6 MARKING

6.1 The collar shall be marked with the manufacturer's name, initials or recognized trade-mark.

6.2 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the product(s) may be marked with the Standard Mark.

7 PACKAGING

As agreed to between the purchaser and the supplier.