ISO 3949:2020 (E)

Plastics hoses and hose assemblies — Textile-reinforced types for hydraulic applications — Specification

Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

4 Classification

5 Materials and construction

5.1 Hoses
5.2 Hose assemblies

6 Dimensions and tolerances

6.1 Diameters
6.2 Concentricity

7 Physical properties

7.1 Hydrostatic requirements
7.2 Change in length
7.3 Minimum bend radius
7.4 Resistance to impulse
7.5 Leakage of hose assemblies
7.6 Cold flexibility
7.7 Ozone resistance
7.8 Electrical conductivity
7.9 Fluid resistance
7.9.1 Test pieces
7.9.2 Oil resistance
7.9.3 Water-based fluid resistance
7.9.4 Water resistance
7.10 Visual examination

8 Frequency of testing

9 Designation

10 Marking

10.1 Hoses
10.2 Hose assemblies

11 Recommendations for packing and storage

12 Recommendations for length of supplied hoses and tolerances on lengths of hose assemblies

13 Test certificate

Annex A (normative) Type and routine testing of hoses

Annex B (informative) Production testing

Annex C (informative) Recommendations for lengths of supplied hoses and tolerances on lengths of hose assemblies

C.1 Hoses
C.2 Hose assemblies

Annex D (normative) Test method for electrical conductivity