UDC 621.643.33 : 678.743 : 621.753.1

Ref. No. : ISO/R 1165-1970 (E)

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION

R 1165

PLASTICS PIPES FOR THE TRANSPORT OF FLUIDS

UNPLASTICIZED POLYVINYL CHLORIDE (PVC) PIPES

TOLERANCES ON WALL THICKNESSES UP TO 6 mm

1st EDITION

January 1970

For each individual country the only valid standard is the national standard of that country.

Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.

BRIEF HISTORY

The ISO Recommendation R 1165, *Plastics pipes for the transport of fluids – Unplasticized polyvinyl chloride (PVC) pipes – Tolerances on wall thicknesses up to 6 mm*, was drawn up by Technical Committee ISO/TC 5, *Pipes and fittings*, the Secretariat of which is held by the Association Suisse de Normalisation (SNV).

Work on this question led to the adoption of a Draft ISO Recommendation.

In November 1967, this Draft ISO Recommendation (No. 1332) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Belgium	Ireland	Spain
Canada	Israel	Sweden
Chile	Italy	Switzerland
Czechoslovakia	Korea, Dem. P. Rep. of	Turkey
Denmark	Netherlands	U.A.R.
France	New Zealand	United Kingdom
Germany	Norway	U.S.S.R.
Greece	Poland	Yugoslavia
India	South Africa, Rep. of	

One Member Body opposed the approval of the Draft :

Japan

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in January 1970, to accept it as an ISO RECOMMENDATION.

ISO Recommendation | R 1165 | January 1970

PLASTICS PIPES FOR THE TRANSPORT OF FLUIDS

UNPLASTICIZED POLYVINYL CHLORIDE (PVC) PIPES

TOLERANCES ON WALL THICKNESSES UP TO 6 mm

1. SCOPE

This ISO Recommendation applies to pipes of unplasticized polyvinyl chloride of circular section for the transport of fluids, the wall thicknesses of which are less than or equal to 6 mm (0.236 in).

It specifies the permissible deviations of the wall thicknesses.

2. DEFINITIONS

2.1 *Nominal wall thickness* (e). The wall thickness of the pipe calculated from the formula given in section 5 of ISO Recommendations R 161, *Pipes of plastics materials for the transport of fluids (Outside diameters and nominal pressures) – Part I : Metric series*, and R 330, *Pipes of plastics materials for the transport of fluids (Outside diameters and nominal pressures) – Part II : Inch series*, rounded off to the next higher 0.1 mm (0.004 in).

2.2 *Wall thickness at any point* (e_i). The result of the measurement of the wall thickness of the pipe at any point, rounded off to the next higher 0.05 mm (0.002 in).

3. TOLERANCES

The variation between the nominal wall thickness (e) and the wall thickness at any point (e_i), ($e_i - e$) should be positive, in the form $^{+y}_{0}$

where y is equal to $0.1\ e + 0.2$ mm ($0.1\ e + 0.008$ in).

The result of this calculation should be rounded off to the next higher 0.1 mm (0.004 in).