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ICS 83.180

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ADHESIVES FOR THERMOPLASTIC PIPING SYSTEMS - ACCELERATED AGEING TEST OF ADHESIVES (INCL. CORRIG. SEPT 06)

This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on:

7 February 2007

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TECHNICAL SPECIFICATION

SPÉCIFICATION TECHNIQUE

TECHNISCHE SPEZIFIKATION

CEN/TS 14999

May 2006

ICS 83.180

English Version

Adhesives for thermoplastic piping systems - Accelerated ageing test of adhesives

Adhésifs pour réseaux de tuyauteries en matières thermoplastiques - Essai de vieillissement accéléré des adhésifs

Klebstoffe für thermoplastische Rohrleitungssysteme - Prüfung von Klebstoffen bei künstlicher Alterung

This Technical Specification (CEN/TS) was approved by CEN on 9 November 2004 for provisional application.

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Foreword

This document (CEN/TS 14999:2006) has been prepared by Technical Committee CEN/TC 193 “Adhesives”, the secretariat of which is held by AENOR.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this CEN Technical Specification: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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1 Scope

This Technical Specification (TS) describes a method for an accelerated ageing test of an adhesive in its container. The result provides the manufacturer with an indication of the storage stability of the adhesive and container combination and their ability to retain adhesive properties.

The method described is intended for solvent based adhesives for thermoplastic piping systems but may be applied to other adhesive types if appropriate.

The method described in this TS does not give a correlation between the results obtained after the accelerated aging test and after the shelf life of the adhesive at the ambient conditions defined by the manufacturer in the data sheet.

2 Normative references

The following referenced documents are indispensable for the application 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 923:2005, *Adhesives - Terms and definitions*

EN ISO 9311-2, *Adhesives for thermoplastic piping systems - Part 2: Determination of shear strength (ISO 9311-2:2002)*

EN 12092, *Adhesives - Determination of viscosity*

3 Terms and definitions

For the purposes of this Technical Specification, the terms and definitions given in EN 923:2005 apply.

4 Principe

The sample is subjected to a combination of temperature and time under specified conditions, followed by comparison of the viscosity and the shear strength of the aged sample with those of a reference sample that has been maintained under standard reference conditions ((23 ± 2) ºC and (50 ± -5) % relative humidity).

5 Safety clause

Persons using this standard shall be familiar with normal laboratory practice.

This standard does not purport to address all the safety problems, if any, associated with its use.

It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any European or national regulatory conditions.

6 Apparatus

6.1 Oven, able to maintain a temperature of 50ºC ± 2°C or 40° C± 2°C.

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