

<b>STN</b>	<p><b>Letectvo a kozmonautika</b> <b>Nekovové materiály</b> <b>Skúšobné metódy</b> <b>Analýza nekovových materiálov</b> <b>(nevytvrdzovaných) diferenčnou snímacou</b> <b>kalorimetriou (DSC)</b></p>	<p><b>STN</b> <b>EN 6041</b></p>
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Aerospace series - Non-metallic materials - Test method - Analysis of non-metallic materials (uncured) by Differential Scanning Calorimetry (DSC)

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

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**EUROPEAN STANDARD**  
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**EN 6041**

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English Version

**Aerospace series - Non-metallic materials - Test method -  
 Analysis of non-metallic materials (uncured) by  
 Differential Scanning Calorimetry (DSC)**

Série aéronautique - Matériaux non métalliques -  
 Méthode d'essai - Analyse Enthalpique Différentielle  
 (AED) des matériaux non métalliques (non  
 polymérisés)

Luft- und Raumfahrt - Nichtmetallische Werkstoffe -  
 Prüfverfahren - Analyse von nichtmetallischen  
 Werkstoffen (ungehärtet) mittels dynamischer  
 Differenzkalorimetrie (DSC)

This European Standard was approved by CEN on 28 August 2017.

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## **European foreword**

This document (EN 6041:2018) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2018, and conflicting national standards shall be withdrawn at the latest by July 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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**EN 6041:2018 (E)****1 Scope**

This test method defines the procedure for the determination of the curing-characteristic and glass transition temperature of non-metallic materials (e.g. preimpregnated and neat resin systems, adhesives) for aerospace use by Differential Scanning Calorimetry (DSC).

The results obtained by this method may be useful for:

- derivation of the optimum cure cycle (only together with other test methods e.g.  $T_g$  determination)
- assessment of the condition of the resin
- assessment of the ageing behavior of the resin

This European Standard does not give any directions necessary to meet the health and safety requirements. It is the responsibility of the user of this European Standard to adopt appropriate health and safety precautions.

**2 Normative references**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2331, *Aerospace series — Textile glass fibre preimpregnates — Test methods for the determination of the resin and fibre content and mass of fibre per unit area*

EN 2559, *Aerospace series — Carbon fibre preimpregnates — Determination of the resin and fibre content and the mass of fibre per unit area*

EN 2743, *Aerospace series — Fibre reinforced plastics — Standard procedures for conditioning prior to testing unaged materials*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**