

Characterization of Candle Flames

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ABSTRACT: Common household open flame and radiant ignition sources are the actual or suspected cause for many fires. The purpose of this research is to identify the burning behavior and properties of common candles in order to provide additional tools for use by fire investigators. The properties of paraffin wax are obtained from the literature and from experiments. The candles are burned under controlled laboratory conditions to measure the mass burning rate, candle regression rate, flame height, and heat flux. Using the properties of paraffin wax and characteristics of the candles, numerous simulations are performed with the NIST Fire Dynamics Simulator (FDS) to model the burning rate and heat flux profile of the candle flame. The modeling results are then compared with the flame height and heat flux data obtained experimentally. The model facilitates an enhanced understanding of the structure of candle flames.

KEY WORDS: arson, candles, fire model, flames, ignition, paraffin, wax.

INTRODUCTION

THE USE OF candles in the US has been increasing annually since the early 1990s. According to the National Candle Association (NCA), candles are used in 7 out of 10 homes, and retail candle sales exceed approximately \$2.3 billion annually with a growth rate exceeding 15% [1]. The increased use of candles has resulted in a corresponding increase in the number of candle-related fires. In 1998, the US Consumer Product Safety

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NIST Technical Note ,198? *Characterization Techniques for Polymer Nanocomposites* Vikas Mittal,2012-05-07 With its focus on the characterization of nanocomposites using such techniques as x ray diffraction and spectrometry light and electron microscopy thermogravimetric analysis as well as nuclear magnetic resonance and mass spectroscopy this book helps to correctly interpret the recorded data Each chapter introduces a particular characterization method along with its foundations and makes the user aware of its benefits but also of its drawbacks As a result the reader will be able to reliably predict the microstructure of the synthesized polymer nanocomposite and its thermal and mechanical properties and so assess its suitability for a particular application Belongs on the shelf of every product engineer **Artificial Light in**

Medieval Churches Vladimir Ivanovici,Alice Isabella Sullivan,2026-01-19 This volume examines the economy of artificial light in medieval churches across Eastern Europe the Mediterranean region and the broader medieval spheres Whether innovative or inspired by the more established Latin and Byzantine traditions the chapters explore local customs in order to understand how artificial light was used in ecclesiastical spaces and how it brought together aspects of the architecture decoration objects and rituals while implicating the celebrants and the faithful gathered within the spaces This volume complements the publication *Natural Light in Medieval Churches* Brill 2023 Contributors are Anna Adashinskaya Giulia Arcidiacono Jelena Bogdanovi Debanjana Chatterjee Aleksandar u akovi Thomas E A Dale Du an Danilovi Magdalena Dragovi Diego R Fittipaldi Leslie Forehand Evan Freeman Jacob Gasper Branka Gugolj Vera Henkelmann Vladimir Ivanovici Charles Kerton Daniela Mondini Robert S Nelson Marko Peji Teresa Shawcross Alice Isabella Sullivan Danijela Te i Radovanovi and Travis Yeager **International Aerospace Abstracts** ,1996 *Government Reports Announcements & Index* ,1996

The Ladies' Repository ,1874 The idea of this women s magazine originated with Samuel Williams a Cincinnati Methodist who thought that Christian women needed a magazine less worldly than Godey s Lady s Book and Snowden s Lady s Companion Written largely by ministers this exceptionally well printed little magazine contained well written essays of a moral character plenty of poetry articles on historical and scientific matters and book reviews Among western writers were Alice Cary who contributed over a hundred sketches and poems her sister Phoebe Cary Otway Curry Moncure D Conway and Joshua R Giddings and New England contributors included Mrs Lydia Sigourney Hannah F Gould and Julia C R Dorr By 1851 each issue published a peice of music and two steel plates usually landscapes or portraits When Davis E Clark took over the editorship in 1853 the magazine became brighter and attained a circulation of 40 000 Unlike his predecessors Clark included fictional pieces and made the Repository a magazine for the whole family After the war it began to decline and in 1876 was replaced by the National Repository The Ladies Repository was an excellent representative of the Methodist mind and heart Its essays sketches and poems its good steel engravings and its moral tone gave it a charm all its own Cf American periodicals 1741 1900 *Kirk-Othmer Encyclopedia of Chemical Technology, Pigments to Powders, Handling*

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