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Dielectric And
Microwave
Properties Of
Natural Rubber

Dielectric And Microwave Properties Of Natural Rubber

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Properties Of

Dielectric, magnetic,

and microwave

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Dielectric And

Microwave

absorption properties
of polyoxometalate-
based materials 1.

Natural Rubber
Introduction. It is

important to explore
new materials which
interact with

electromagnetic
energy in desirable... 2.

Material and methods.

In brief, 50.0 g sample
of $\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$
was dissolved in ...

**Dielectric, magnetic,
and microwave
absorption**

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Dielectric And

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properties ...

The dielectric properties of foods are important for the interpretation of the influence of the electromagnetic wave nature of the microwave on the temperature distribution in the food material. Available data and prediction models for dielectric properties is reviewed and the major dielectric measuring

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methods commented
on.

Properties Of

Natural Rubber

**Dielectric Properties
and Microwave
Processing |
SpringerLink**

The dielectric
properties also depend
on the Microwave
dielectric properties of
particulate materials
369 frequency of the
applied electric field,
the temperature of the
materials, and on the
density and structure

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Dielectric And

Microwave

of the materials.

Properties Of

Measurement of

Microwave Dielectric

Properties of ...

The dielectric properties of the composites were investigated for microwave absorption at temperatures from 25 °C to 300 °C in X-band. Results indicate that the complex permittivity of the composites shows strong frequency

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Dielectric And

Microwave

dispersion

characteristics and

obvious temperature-

dependent behavior.

**Dielectric and
Microwave
Absorbing
Properties of Quartz**

...

Structure, spectral

analysis and

microwave dielectric

properties of novel

$x(\text{NaBi})_{0.5}\text{MoO}_4$ -

$(1-x)\text{Bi}_{2/3}\text{MoO}_4$ ($x =$

$0.2 \sim 0.8$) ceramics

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Dielectric And

Microwave

with low sintering
temperatures 1.

Introduction The
investigation of

microwave dielectric
materials is closely

related to the

development of
modern... 2.

Experimental ...

**Structure, spectral
analysis and
microwave dielectric**

...

Dielectric and

microwave absorption

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Dielectric And

Microwave

properties of Ti₃SiC₂
powders 1.

Introduction. With
extensive application
of electromagnetic
(EM) waves, the
problems of radiation
pollution and... 2.

Experimental
procedures.

Commercially available
Ti (purity 99%, -200
mesh), Si (purity 99%,
-300 mesh), TiC ...

**Dielectric and
microwave**

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Dielectric And

Microwave

absorption

properties of

Ti₃SiC₂ ...

2.3. Microwave

interactions with
dielectric materials.

Microwave heating is a
result of interactions

among dielectric
materials and the

electromagnetic
waves. Dielectric

properties govern the
efficiency and quality

of the heating process

(Curet, Rouaud, &

Boillereaux, 2014).

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Microwave heating and the dielectric properties of foods

...

Most of the dielectric loss is within the microwave range of electromagnetic radiation ($\sim 1 - \sim 300$ GHz, with wavenumber $0.033 \text{ cm}^{-1} - 10 \text{ cm}^{-1}$, and wavelength $0.3 \text{ m} - 1.0 \text{ mm}$ respectively).

Water dielectric and microwave radiation

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Dielectric And

Microwave

Properties Of

Natural Rubber
Relevance of Dielectric
Properties in
Microwave Assisted
Processes 93 factor

accounts for the loss energy dissipative mechanisms in the material². Therefore, a material with a high loss factor is easily heated by microwave. On the other hand, if a material has a very low ϵ'' is transparent to microwave effect.

Power dissipation (Q_g) is

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Relevance of Dielectric Properties in Microwave Assisted ...

A dielectric resonator oscillator (DRO) is an electronic component that exhibits resonance of the polarization response for a narrow range of frequencies, generally in the microwave band. It consists of a "puck" of ceramic that has a large dielectric

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Microwave

Properties Of

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constant and a low
dissipation factor .

Dielectric - Wikipedia

- The knowledge of the electrical properties of the materials to be processed or measured is important in the design of the equipment. Dielectric properties determine the behavior of the materials, when subjected to high frequency or

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microwave fields in dielectric heating processes or cooking.

Dielectric PROPERTIES OF FOOD

On the basis of dielectric properties, microwave devices (applicators) can be adopted in heating operations and optimized working protocols can be used. This chapter is divided into four sections

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Dielectric And

Microwave

dealing with:

fundamentals of

microwave heating and

relevance of dielectric

properties of materials;

Relevance of Dielectric Properties in Microwave Assisted ...

Microwave dielectric
ceramics are widely
used as key materials
for passive
components in
microwave
communication

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Dielectric And

Microwave

systems, such as filters, capacitors, resonators, dielectric antennas, and

dielectric waveguides [, , , ,]. In recent years, the new microwave dielectric ceramic materials have emerged endlessly.

Effects of W6+ substitution on crystal structure and

...

By sintering at 1175°C for 4 hours, the

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Microwave

obtained 0.9625MgTiO

3-0.0375Ca-0.5 Sr 0.5

TiO 3 composite

ceramics with 2 wt% B

2 O 3 possess the

optimal microwave

dielectric properties of

$\epsilon_r = 18.9$, $Q \cdot f = 57\,000$

GHz and $\tau_f = -1.2$

ppm/ $^{\circ}$ C.

Effects of adding B2O3 on microwave dielectric properties

...

Engineering Magnetic,

Dielectric and

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Microwave

Microwave Properties
of Ceramics and Alloys.

New research on the magnetic, dielectric and microwave properties of promising materials for domestic, industrial, military and medical applications are presented, with focus on biomaterials, ferrites, Ni-Fe alloys, capacitors, multiferroics, microwave absorbers and perovskite materials.

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Microwave

**Engineering Of
Magnetic, Dielectric
and Microwave
Properties ...**

1 C. Gabriel.

Compilation of the
Dielectric Properties of
Body Tissues at RF and
Microwave

Frequencies, Report

N.AL/OE-TR-

1996-0037,

Occupational and
environmental health
directorate,

Radiofrequency

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Microwave

Radiation Division,
Brooks Air Force Base,
Texas (USA), 1996.

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Dielectric Properties

» IT'IS Foundation

The body tissue dielectric parameters tool generates ϵ (epsilon) and σ (sigma) values for various body tissues. A 4-Cole-Cole Model, as described in "Compilation of the Dielectric Properties of Body Tissues at RF and Microwave

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Dielectric And

Microwave
Frequencies" by

Camelia Gabriel in U.S.

Air Force Report AFOSR-

TR-96, is used to

compute the values.

The tool calculates

parameters for

frequencies between

10-6,000 MHz.

Body Tissue

Dielectric

Parameters | Federal

Communications ...

Dielectric response and

microwave absorption

properties of SiC

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Microwave

Properties Of

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whisker-coated carbon fibers were investigated at the frequency range of 2–18 GHz. 8 and 18 wt% SiC whiskers were grown on carbon...

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ecf8427e.