

#### The cryogenic properties of engineering polymers and reinforced polymers Asif Istiak\*, Hui-Yun Hwang\*

\* Department of Mechanical Design Engineering, Androng National University, South Korea.

#### Introduction

Manufacturing systems are petting a permission on high strength but live weight materials for efficient engineering. Applications in cryogenic temperature are increasing day by day in various fields. The cryogenic temperature generally defeated the features of conventional materials, but some specific engineering polymers and emilioced polynoms withstand electing mater features of common polynoms as well as their distinct notable properties. The interest in designing cryogenic propellant tasks with polynomes and composites has been established many years ago. Though those areas of study manared, adequate relative information about these polymers is vital to design an effective cryopetic task. In this study, we have acceptant and portrayed the proportion of these polyments for designing, developing or amelionating cryogenic projection task.

#### Motivation

- Diffee polymers and compositors are strong but light weight.
- QLAS can not withought the victoritudes in entropely low temperatures.
- Officers remarkable engineering polymers and relationed polymers can stand up to cryogenic states.
- They can mitigate damage initiation, fatigue crack, crack growth, permeation in cryogenic task.

#### Cryogenic propeller tank

According to Britannics encyclopedia, the temperature is from -150°C to absolute axes (-273°C).

D In courses the method multiproduction on the processor.

Witnesple: Liquid Sellium (4.2 K), Liquid by droper (20 K), Liquid natiogen (TT K), and liquid excepts (90 K) temperatures, etc...



DCtyregenic tank design requires retriateding metals.

DiSorne motable Engineering polymers and anespective can metal.

Differ orbidde design, metals are being replaced by polymers.



#### Representative Polymers

Wingingering polymers are a group of polymers that have motable mechanical, thermal characteristics thus other polymers.

DEScription of applications great, shaft, auto-parts, bearing.

resholded Polymer matrix composites PMCs are commonly used.

Officered light wouldt but endure high load



#### Thermal properties

D'Cryogenic thermal stress can induce stress intensity factor that helps to fraction of polymer IT Ceki et al. crosposics. 49:141-HARL DOORS II.

200

It depends on variety and ensurance of polymers.

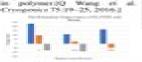


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thermal expansion (CTEE) in composite ICS Blooms of all, Circumposion 4th 450-454.

he Q Miney et al.'s study, the y temporaries FO PURE and PERSON to found in cryogenic condition Albertag State responsible for water absorption polymer2Q Wong et al.



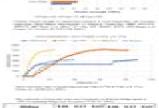
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#### Mechanical properties

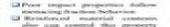
The enventual mechanical characteristics of runious engineering polymers for designing of exponents propeller tank have been highlighted.



Moreover, better tensile and flexural [ proporties than the absonuminously was lound in Polyethetecherketone (PEEE)C) with 20% place fiber effect far at lower temperature DCC Clin et al. Cryogenico 5034-48. 2010.

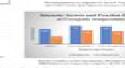












Flexand strongth also dotermines the failure due to deformation. To lovik into cruck profile in prints, shore strangth of polymeric adheseve and realized motorists obould by known. A mody found that crack records on the oryogenic tank's wall. shor to the matrix failure in composites [E. Arkit et al. Adv. Composity Marye 10:349-356.

#### Miscellaneous

Many properties are on related with such other such as were behavior influences sliding performance, crosp is dependent on CTE, water absorption nests on thermal cycling and so on. Structure and type of additives can tailor various perpetters. Some works are worth recretioning in this purpose it.g.

- Difflicts of Water absorption of polymer, at oryogenic [G Banchek et al. Prejunce 60:3433-3441, 1998.]
- O Comparative were emistance undo amone Sellon, PSEK and PS. (Q. Winng et al., Cryongomics 75-19-25, 2016).):
- DiCtack findings in reposhband PEEK tape with CFIPEEK for 1808. Microsy et al., Microsy Dice 132:567-581, 2017.)
- III Tailored Hardness in composites adding more carbon additives. [KT Law et al. Composition 54:61–43-2015.]
- Differ affects in wear volume for adding fillers in engineering [ 2 Indomethi et al. Wese 225:345-355; 2000.]:
- DIFF-exics incorporation in advanced cryogenic application. [YH Zhang et al. Compen. Sci. Birthoof. 65:1745-1748. 2005.]
- Q'Lewer residual stress for direction of ply in the compositor that fulfillows militarities cracks.
- (DM Grogue et al. Compos. Part & Appl. Sci. Manual 78:390adds being the

#### Discussion

GPThe difference of CTE for temperature variance, lower tensile and impact properties, sliding variance, ply direction affects stacking in polymer. That is who these properties were prejumed for environment bands transmitted technique Office some extraordinary proporties, engineering polymer PEEK. PCTFE, PC can be used for structure and PI and Kapton, scaling tape.

Ultratic composites forming sealants or adherives having Carten Ebers or openy matrix are highly recommended by meanwhers which have higher elece, impact elecatio and have wears believed

#### Concluding Remarks

- There is indeed a limitation in this field because most of the polymere. and not the locitie would at any approise temperatures.
- O'The copious representative, notable and necessary properties in cryospenic state should be diguestions for all polymers. CI The limitation of this work is the less highlight of electric properties
- of polymers since it is focused on expoprior task's well development. It is the future, this work can be a milestone, following that tenearchers can develop them fields of interests.

#### **Acknowledgement**

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# **Cryogenic Properties Of Polymers**

United States. National Aeronautics and Space Administration. Scientific and Technical Information Division

#### **Cryogenic Properties Of Polymers:**

Cryogenic Properties of Polymers Tito T. Serafini, Jack L. Koenig, 1968 Polymers at Cryogenic Temperatures Susheel Kalia, Shao-Yun Fu, 2013-03-26 Kalia and Fu s novel monograph covers cryogenic treatment properties and applications of cryo treated polymer materials Written by numerous international experts the twelve chapters in this book offer the reader a comprehensive picture of the latest findings and developments as well as an outlook on the field Cryogenic technology has seen remarkable progress in the past few years and especially cryogenic properties of polymers are attracting attention through new breakthroughs in space superconducting magnetic and electronic techniques This book is a valuable resource for researchers educators engineers and graduate students in the field and at technical institutions <u>Properties at Room and Cryogenic Temperatures</u> Gunther Hartwig, 2013-04-18 Most descriptions of polymers start at room temperature and end at the melting point This textbook starts at very low temperatures and ends at room temperature At low temperatures may processes and relaxations are frozen which allows singular processes or separate relaxations to be studied At room temperatures or at the main glass transitions many processes overlap and the properties are determined by relaxations At low temperatures there are temperature ranges with negligible influences by glass transitions They can be used for investigating so called basic properties which arise from principles of solid state physics The chain structure of polymers however requires stringent modifications for establishing solid state physics of polymers Several processes which are specific of polymers occur only at low temperatures. There are also technological aspects for considering polymers at low temperatures More and more applications of polymeric materials in low temperature technology appear Some examples are thermal and electrical insulations support elements for cryogenic devices low loss materials for high frequency equipments It is hoped that in addition to the scientific part a data collection in the appendix may help to apply polymers more intensively in low temperature technology The author greatly appreciates the contributions by his coworkers of the Kernforschungszentrum Karlsruhe in measurement and discussion of many data presented in the textbook and its appendix Fruitful disccussions with the colleagues Prof H Baur Prof S Hunklinger Prof D Munz and Prof R Cryogenic Properties of Polymers Serafini, Koenig, 1986-09-01 Cryogenic Properties of Polymers Case Institute of Technology, NASA-Lewis Research Center, 1967 Cryogenic Properties of Polymers Tito T. Serafini, 1968 **Cryogenic Properties of Polymers**, NASA-Case Conference on the Properties of Polymers at Cryogenic Temperatures, April 25 - 27 1967 Serafini TT A Selected Listing of NASA Scientific and Technical Reports United States. National Aeronautics and Ed,1968 Space Administration. Scientific and Technical Information Division,1970 NASA Scientific and Technical Reports and Publications for 1969 - A Selected Listing United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1970 Chemistry & Physics of Carbon Walker, 1975-09-01 This book provides a comprehensive and critical overview of carbon materials in terms of molecular structure intermolecular relationships bulk

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