

**Table 1: Cryogenic Properties – Unreinforced Polymers**

Properties	Test Method	Torlon 4203 PAI	CryoDyn CT-200 <i>Cryogenic grade PEEK</i>	PCTFE <sup>1</sup>		Vespele <sup>®</sup> SCP 5000 PI
Temperatures at which tests were conducted		@ -196°C / - 321°F	@ -196°C / - 321°F	@ -252°C / - 421.6°F	@ -129°C / - 200.2°F	@ -196°C / - 321°F
Tensile strength	ASTM D638	216 MPa / 31.5 kpsi	138 MPa / 20 kpsi	200 MPa / 29 kpsi	150 MPa / 21.75 kpsi	•
Tensile elongation @ break	ASTM D638	6%	10 - 40% <sup>1</sup>	5%	9%	•
Flexural strength	ASTM D790	282 MPa / 41 kpsi	349 MPa / 50.6 kpsi	•	•	•
Flexural modulus	ASTM D790	7,800 MPa / 1,140 kpsi	4,900 MPa / 710 kpsi	•	•	7,900 MPa / 1,145.5 kpsi
Compressive strength	ASTM D695	•	250 MPa / 36.3 kpsi	•	•	•
Data source:		Synsco	Victrex	AFT Fluorotec		DuPont
Notes:		• Data not available	<sup>1</sup> TI values depend on crystallization	<sup>1</sup> Values based on resin data		

# Cryogenic Properties Of Polymers

**Walker**



## **Cryogenic Properties Of Polymers:**

*Cryogenic Properties of Polymers* Tito T. Serafini, Jack L. Koenig, 1968      *Polymer Properties at Room and Cryogenic Temperatures* 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 many 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 discussions with the colleagues Prof H Baur Prof S Hunklinger Prof D Munz and Prof R      *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      **Cryogenic Properties of Polymers** Case Institute of Technology, NASA-Lewis Research Center, 1967      *Cryogenic Properties of Polymers* Serafini, Koenig, 1986-09-01      *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 Ed, 1968      **A Selected Listing of NASA Scientific and Technical Reports** United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1970      *NASA Scientific and Technical Reports* United States. National Aeronautics and Space Administration Scientific and Technical Information Division, 1970      *NBS Monograph* , 1959      *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 and surface properties and their behavior in current and emerging applications It also presents advances in carbon research and development *Cryogenic Properties of Polymers, Proc. NASA-Case Conf. 1967* T. T. Serafini,J. L. Koenig,1967 *Flame Retardancy of Polymeric Materials* ,1973

**PCM—CMM2023: Theories, Models and Simulations of Complex Physical Systems** Eugeniusz Świtoński,Arkadiusz Mężyk,Sławomir Kciuk,Roman Szewczyk,2024-10-31 The idea of organizing the Polish Congress of Mechanics was born in 2005 among members of the Polish Society of Theoretical and Applied Mechanics The first Congress has been organized in 2007 In 2013 the organization of the Polish Congress of Mechanics was included in the statutory tasks of the Polish Society of Theoretical and Applied Mechanics Referring to the splendid tradition of Polish Theoretical and Applied Mechanics the Congress has become one of the most important international scientific conventions representing this domain of science and gathering every 4 years about 500 600 specialists who deal with the issues of mechanics and mechanical engineering in a broad sense The organization of the Congress allows for the connection of many scientific communities researchers and engineers from various universities faculties research centers and institutions Such scientific meeting is an excellent place for presentation discussion and dissemination of new achievements and ideas relating to the theoretical foundations as well as practical applications of mechanics The Congress presents the current state of the art research in all disciplines of classical and quantum mechanics solid and fluid mechanics computational mechanics applied mechanics and physics as well as structural mechanics and engineering NASA SP. ,1970 **International Aerospace Abstracts** ,1970 Analysis of Structural Composite Materials Sabodh K. Garg,Vytas Svalbonas,Gerald A. Gurtman,1973 Flame Retardancy of Polymeric Materials William C. Kuryla,Anthony Joseph Papa,1973 **NBS Special Publication** ,1971

## Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Cryogenic Properties Of Polymers**

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