

1. Record Nr.	UNINA9911089652703321
Titolo	Polyester : properties, preparation and applications / / Hina Yamashita and Yui Nakano, editors
Pubbl/distr/stampa	New York, : Nova Science Publishers, c2008
ISBN	1-60876-338-2
Edizione	[1st ed.]
Descrizione fisica	1 online resource (260 p.)
Altri autori (Persone)	NakanoYui YamashitaHina
Disciplina	668.4/225
Soggetti	Polyesters Gums and resins, Synthetic
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	""POLYESTER: PROPERTIES, PREPARATION AND APPLICATIONS""; ""NOTICE TO THE READER""; ""CONTENTS""; ""PREFACE""; ""HYDROLYSIS OF POLYESTERS AND POLYCARBONATES""; ""ABSTRACT""; ""ABBREVIATIONS""; ""1. INTRODUCTION""; ""2. POLYESTERS""; ""2.1. Hydrolysis of PET in Water""; ""2.2. Acidic Hydrolysis of PET""; ""2.3. Alkaline Hydrolysis of PET""; ""2.4. Other Processes""; ""2.5. Hydrolysis of PEN and PBT""; ""2.6. Industrial Applications""; ""3. POLYCARBONATE""; ""4. CONCLUSION""; ""REFERENCES""; ""MULTIWALL CARBON NANOTUBE REINFORCED POLYESTER NANOCOMPOSITES""; ""ABSTRACT""; ""1. INTRODUCTION"" ""1.1. Multiwall Carbon Nanotube (MWCNT)""""1.2. CNT/Polymer Nanocomposites""; ""2. PROCESSING OF CNT/POLYMER NANOCOMPOSITES""; ""2.1. General Features""; ""2.2. CNT-Reinforced PEN Nanocomposites""; ""3. UNIQUE NUCLEATION OF CNT AND PEN NANOCOMPOSITES DURING NON-ISOTHERMAL CRYSTALLIZATION""; ""3.1. Morphology""; ""3.2. Thermal Behavior""; ""3.3. Non-Isothermal Crystallization Behavior""; ""3.4. Nucleation Activity and Activation Energy for Non-Isothermal Crystallization""; ""4. INFLUENCE OF CNT ON PHYSICAL PROPERTIES OF PEN NANOCOMPOSITES""; ""4.1. Dynamic Mechanical Thermal Analysis"" ""4.2. Rheological Behavior""""4.3. Mechanical Properties and Thermal Stability""; ""5. CRYSTALLIZATION, MELTING BEHAVIOR, AND

MECHANICAL PROPERTIES OF CNT AND PEN NANOCOMPOSITES""; ""5.1. Isothermal Crystallization and Melting Behavior""; ""5.2. Mechanical Properties and Theoretical Approach""; ""6. THERMAL STABILITY AND DEGRADATION BEHAVIOR OF PEN/CNT NANOCOMPOSITES""; ""6.1. Dynamic Mechanical Thermal Properties""; ""6.2. Thermal Stability""; ""6.3. Thermal Degradation Kinetics""; ""6.4. Interconnected Network-Like Structures of MWCNT""; ""7. SUMMARY""; ""REFERENCES""

""RECENT DEVELOPMENTS IN MODIFICATION OF CYANATE ESTER RESINS""1. INTRODUCTION""; ""2. HYBRID NETWORKS FROM CYANATE ESTERS AND POLYETHERS (POLYESTERS)""; ""3. POLYCYANURATE-POLYURETHANE GRAFTED SEMI-IPNS""; ""3.1 Synthesis, Chemical Interaction between Components, Reactive Grafting and Compatibilization""; ""3.2. Kinetic Peculiarities""; ""3.3. Relaxation Behaviour and Phase Structure""; ""3.4. Influence of Carbon Fiber Filler on Formation and Phase Structure""; ""3.5 Properties. Adhesion to Metals""; ""4. POLYCYANURATE-POLYURETHANE LINKED FULL-IPNS""; ""5. CONCLUSIONS""; ""REFERENCES""

""BIODEGRADABLE ALIPHATIC POLYESTERS DERIVED FROM 1,3-PROPANEDIOL: CURRENT STATUS AND PROMISES""""ABSTRACT""; ""1. INTRODUCTION""; ""2. DISCUSSION""; ""2.1. 1,3-Propanediol as a Monomer for Polymer Production""; ""2.2. Synthesis and Characterization of the Polyesters of 1,3-PD""; ""2.3. Biodegradation""; ""2.4. Copolymers""; ""2.5. Blends""; ""2.6. Application of PPSu in Drug Delivery Systems""; ""3. CONCLUSION""; ""REFERENCES""; ""COMPATIBILITY OF COTTON/NYLON AND COTTON/POLYESTER WARP-KNIT TERRY TOWELLING WITH INDUSTRIAL LAUNDERING PROCEDURES""; ""ABSTRACT""; ""INTRODUCTION""

""AIM OF THE STUDY""

Sommario/riassunto

Polyester (aka Terylene) is a category of polymers which contain the ester functional group in their main chain. This text provides leading edge research on polyester from around the globe.
