## 1. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations

Disclaimers

Data Interpretation & Reporting Level

Quantitative Techniques & Analytics

Product Definitions and Scope of Study

**Product Segments Definitions** 

Polycarbonates (PC)

ABS (Acrylonitrile-Butadiene-Styrene)

Polyacetal

Nylon

Thermoplastic Polyesters

Others

**End-Use Segments** 

Automotive

**Electrical and Electronics** 

**Appliances** 

Miscellaneous

#### 2. MARKET OVERVIEW

A Quick Primer

Current Market Scenario

Growth Slips Amid a Cooling Economy

The World Beyond Recession

Outlook

Noteworthy Market Trends

Demand Conditions Brighten up for Polycarbonate

Far Eastern Countries Represent Roaring Market for Polycarbonate

Healthy Growth Projected in Thermoplastic Polyesters and Other Low Volume Resins

'Comply and Survive' Forms the Environmental Dictum

Thermoset Resins Need to Disown Hazardous Chemicals to Survive in the Market Challenges

High Performance Features Drive Growth Potential

Thermosets All Set to Enter New Niche Markets

**Review Of Plastics Industry** 

Medical Plastics Demand Set to Rise

Medical Components Segment to Overtake Medical Packaging Applications

Commodity Resins Poised to Dominate the Medical Plastics Market

Fast-paced Growth Predicted for Engineered Plastics

Automotive Applications to Boost PC Demand

Construction and Medical Industries Drive PC Demand

PC Preferred for Water Bottles

Polypropylene to Offer Good Competition to ABS

North America to be the Manufacturing Hub for Larger Appliances

Electronics and Information Storage to Boost Market

Growing Demand for Engineered Plastics in Engine Parts

Booming Market for Microsphere Fillers in North America

Other Expanding Applications in Automotive Industry

Heat-Resistant Engineered Plastics Replace Steel in Hot Water Tanks

China and India: Burgeoning Markets for Engineered Plastics

India Set to Become Hot Destination for Foreign Investment

Blends - Gaining Ground

### 3. PRODUCT OVERVIEW

**Introduction to Engineered Plastics** 

**Plastics** 

The Beginning

World War II - a Boon for the Plastic Industry

Monomers and Polymers

The Final Product

Types of Engineered Plastics

ABS (Acrylonitrile-Butadiene-Styrene)

Polycarbonate

Nylon

Nylon 6/6

Gas-Filled Nylon

Nylon 6

Blue Nylon

Moly-Filled Nylon

Oil-Filled Nylon

Thermoplastic Polyesters

Polyacetal (PA)/Acetal Polymers

Others

PEEK (Polyetheretherketone)

PEI (Polyetherimide)

Phenolics

Polyimide

PPO (Polyphenylene Oxide)

PPS (Polyphenylene Sulfide)

PPSU (Polyphenylsulfone)

Polysulfone

Styrene Acrylonitrile

#### 4. END-USE MARKET ANALYSIS

Automotive

Key Players in the Industry

Electrical and Electronics

Audio and Video Equipment

Electric Lighting and Wiring Equipment

Motors and Generators

Semiconductors

**Appliances** 

Miscellaneous

- (i) Building/Construction
- (ii) Medical

### **5. PRODUCT LAUNCHES**

Styron Launches CALIBRETM 1060 DVD Polycarbonate Resin

DSM Engineering Plastics to Introduce Arnitel® Eco

DSM Engineering Plastics Launches Akulon RC

BASF Rolls Out Flame-Retardant Engineering Plastics

Quadrant Engineering Plastic Products Introduces Semitron® MP370 and Duratron D7000 PI

Tekra Corporation Launches New ProTek® Flame Retardant Clear Polycarbonate Film

Rhodia Group Rolls Out Technyl® eXten

RadiciGroup Introduces New Radilon® and Radiflam® Engineering Plastics

Royal DSM Rolls Out EcoPaXX and Palapreg ECO Bioplastic Resins

Nylacast Launches New Eco PA6 Nylon Engineering Plastic

IRPC Introduces Five New Polymer Additives and Styrene Plastic Resin

Bayer MaterialScience Launches Bayblend® M

FR Polycarbonate

DSM Engineering Plastics Unveils Brand Name Stanyl® ForTii<sup>TM</sup>

RTP Unveils New Bio-based Materials

Deposition Sciences Rolls Out Optical Coatings

Interstate Specialty Products Launches Fabricated Plastic Components

Bayer Materialscience Unveils New Makrolon® LED2243 Polycarbonate Resin

Uponor Rolls Out Engineered Plastic Heating Manifold

SABIC Innovative Plastics Introduces Lexan ULG

112OQ Polycarbonate

DuPont Launches New Engineering Thermoplastic Delrin 300CP

Dotmar Safeguard Polycarbonate Introduces SAFEGUARD UVX and SAFEGUARD HARD

RedEye RPM Unveils New Ready Part<sup>TM</sup> Premium Service

Eastman Chemical Introduces New Medical-Grade Polymer Family

Momentive Performance Materials to Unveil SHP 470 FT 2050

A Raymond Selects Ultramid® T KR4357 G6 to Generate Quick Connectors

Polyplastics Develops DURACON M90LP

Polyplastics Develops Fortron 1140A66

Solvay Launches SEQUEL 1828 with Lowest CLTE

Memry Corporation Introduces Putnam Plastics Plus

3D Systems Corp. Launches Accura 55 Plastic as alternative to ABS

GE Plastics Introduces New Lightweight Polycarbonate

Eastman Unveils ParaStar PET Resins

3D Systems Introduces Accura® 60 Plastic for Use in Solid-State Laser Systems

J&A Plastics Launches New Functional Polycarbonate (PC) Blends

3D Systems Launches Accura®25 Plastic

Rochling Engineered Plastics Offers a New Formulation of Polystone

Thixomat Unleashes Thixomolding, New Injection Molding Technology

ATP Engineers a New Medical Device

#### 6. RECENT INDUSTRY ACTIVITY

Celanese Takes Over LFT Business of FACT

Citadel Plastic Holdings Acquires QTR

Bain Capital Partners Takes Over Styron

Ticona Engineering Polymers Purchases Two Product Lines from DuPont

DSM Engineering Plastics and Mitsubishi Chemical Corporation Exchange Business Units

Royal DSM Shaw Industries Group Acquires PA

polymerization Unit from Nylon Polymer Company

A. Schulman Takes Over ICO

DSM Engineering Plastics Inks Agreement with RESINEX Group

South Asia Petrochem to Construct Polyethylene Unit

Quadrant Engineering Plastic Products Enters into Joint Venture with Solidur Plasticos Industriais

Eastman Chemical Company Starts New Plant

Lanxess Divests with Lanxess Yaxing Chemicals

Wacker Chemie Establishes Technical Centre

Hitachi Plant Technologies Enters into Contract with Sinopec

Korea Kumho Petrochemical to Establish Plant in China

Citadel Plastic Acquires Fiberfil Engineered Plastics

CNOOC and LG Chemical Enters into Joint Venture

CNPC to Expand Jilin Petrochemical

DuPont Selects PolyOne as Primary Distributor for Thermoplastic Products in North America

Clondalkin Group Acquires Cleveland Plastic Films

Invista to Enter Nylon-6,6 Engineering Polymers Business

Albis Extends Partnership with Lanxess and Bayer

Trexel and Engel Machinery Collaborate

**DSM Engineering Commissions Pune Plant** 

Mitsubishi Extends Cooperation with Sinopec

SK Capital Partners Takes Over Nylon Business of Solutia

**Uponor Expands Engineered Plastic** 

Ube Industries Merges its Subsidiaries

Mitsubishi Plastics Acquires Quadrant

Nilit Takes Over Nylstar

Wiman Corporation Acquires OMNOVA Solutions

National Methanol to Build New Facility

Bayer Material Science Signs Agreement with Kyowa Industrial and MHIPTCL

Bayer MaterialScience and Malibu Plastica (P) Limited Ink Agreement

Mitsubishi Chemical Corporation to Construct Bio-polycarbonate Pilot Facility

Braskem to Close PET Unit

Arkema Purchases Oxford Performance Materials

China XD Acquires Favor Sea Limited

FRX Polymers and Uhde Inventa-Fischer Enter into Joint Agreement

Sterling Containers Expands Manufacturing Capacity of PET Bottles

Lubrizol Purchases Dow Thermoplastic Polyurethane Business

Roechling Establishes a Production Plant

JSR to Acquire Techno Polymer

Steller Kunststofftechnik Establishes New Plant

Ultrapolymers Distributes Sabic Innovative Plastics

Saint-Gobain to Expand Research & Development Center

Zamil Industries Enters into Joint Venture with Armacell International

Clariant Establishes Specialty Chemical Facility

Alloy Polymers to Acquire Schulman's Manufacturing Plant

Winco Expands Nylon Plastic Hand Knobs

Shaw Group Bags Contract from Tianjin Dagu Chemical Industry

DyStar Textilfarben Inks Cooperation Agreement with BASF

Sika Automotive Chooses BASF

Daimler and Bayer Material Science Enter into Cooperative Agreement

DuPont India Launches DuPont Photovoltaic Solutions

DuPont to Increase Capacity in China

DuPont Establishes Fluoropolymer Production Plant in China

Eastman Chemical Company Enters into Agreement with Plaskolite

Aladdin® and Eastman Chemical Company Enter Partnership

Royal DSM Established Polymerization Plant in Geleen

DSM Unveils Akulon® Polyamide 6 Facility in China

Royal DSM Takes Over The Polymer Technology Group

**DSM Takes Over Soluol** 

SABIC Innovative Plastics Collaborates with LPKF Laser & Electronics

Teijin Chemicals to Increase Production Capacity

Ticona Starts Construction of Hostaform Polyacetal and Celstran Plant

DuPont to Increase Compounding Capacity of Nylon Resins

BASF SE Secures Contract for Ludwigshafen Plant

Bayer Material Science Introduces New Facilities in China

Ticona Enters Into Partnership with K.D. Feddersen in North Europe

Röchling to Expand in Gastonia Technology Park

BASF to Reinforce Automotive Business in India

Poly-Pacific Inks Definitive Joint Venture Agreement with Zhejiang Siecheng Plastic Company

Ashland Distribution Inks Agreement with BASF

Satyam Computer Services Signs MoU with Central Institute of Plastics Engineering & Technology

The Conair Group and Husky Injection Molding Systems Enter into Agreement

Chem Polymer Repositions Engineering Plastics Production to Teknor Apex

Evonik Acquires Complete Stake in Degussa Engineered Carbons

SABIC Acquires GE Plastics

Bayer Material Science Acquires Ure-Tech

LANXESS and DuPont's Joint-Venture Boosts Production of PBT Polymer

Eastman Divests PET Manufacturing Assets

DSM Acquires Pamako AG

SAUDI KAYAN Inks Two Contracts to Construct PP and LDPE Plants

Ticona to Construct New LFRT Plant at Nanjing

Sintex Acquires Dominant Stake in WCI of USA

Polynt Acquires Plasticizer Business of DSM Composite Resins

NILIT Acquires FRISETTA Polymer

Röchling Engineering Plastics Acquires Glastic Corporation

Röchling Acquires Symplastics

BASF Inaugurates Plastics Compounding Plant in China

Unigel Plastics Merges Policarbonatos and Resarbras to Form Unigel Plasticos

Rohm and Haas to Form JinHaas with Weihai

DSM to Construct Engineering Plastics Compounds Plant in India

DSM Engineering to Build Greenfield Plant in India

**Kuibyshevazot Commences Operations** 

Plastal Inks an Agreement with Polytec to Sell Menzolit-Fibron Mouldings

Audax Group Acquires UTEX

Radici Forms a Joint Venture with MK Modi Group

Röchling Acquires Three Companies

Toray and BASF Commence Commercial Production of PBT Resin

DSM Initiates Construction of New Polymer Factory in China

DSM Opens a New Manufacturing Facility for Engineering Plastics in China

Solvay Acquires Gharda Chemical's Polymers Division

TriStar Plastics Acquires CJ Composite Bearings Division

Matrix Acquires Atco Plastics

Jacobs Secures Contract for the "UH2" Venture of DSM

IDEX Concludes Acquisition of Eastern Plastics

Lanxess Steps Up Engineering Plastics Capacity

BASF Acquires North American EP Venture of LATI Industria

Fiberfil Acquires DSM's Polypropylene Business

DSM's Arnitel COPE Collaborates with SpecialChem

Calico Propels Capacity of Auto Parts

Applied Tech Products Forms Joint Venture with Wellmei Industrial Co. Ltd.

China National Chemical Corp. Takes Over Australian Qenos

**BASF** Acquires Leuna-Miramid

Centroplast Acquires Semiplas

Teijin Completes First Phase of Polycarbonate Project

Aker Kvaerner Constructs New POM Plant

MGC Commissions New Polyacetal Facility

Silon Purchases Suzhou Constab Engineering Plastics

Bayer ABS Changes Name

#### 7. FOCUS ON SELECT GLOBAL PLAYERS

BASF SE (Germany)

Bayer AG (Germany)

Chi Mei Corporation (Taiwan)

Dow Chemical (US)

DuPont (US)

Eastman Chemical Company (US)

Evonik Degussa GmbH (Germany)

LG Chem (Korea)

Polyplastics Co. (Japan)

Royal DSM NV (The Netherlands)

SABIC (Saudi Arabia)

SABIC Innovative Plastics US LLC (US) TICONA Engineering Polymers (Germany) Teijin Limited (Japan) Toray Industries Inc. (Japan) Wintech Polymer Ltd. (Japan)

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**Business Machines and Computers** 

**Machinery Components** 

**Building Materials** 

Telecom

White Goods/Consumer Durables

**Consumer Electronics** 

**Key Players** 

DuPont India (India)

INEOS ABS (India) Ltd. (India)

Korea Engineering Plastics Co., Ltd. (Korea)

Korea Kumho Petrochemical Co., Ltd. (Korea)

Reliance Industries Limited (India)

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Japan 14

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France 12

Germany 18

The United Kingdom 17

Italy

Spain

Rest of Europe 19

Asia-Pacific (Excluding Japan) 39

Latin America 1

Middle-East 3