



# **GLOBAL TIE-LAYER RESINS MARKETS, TECHNOLOGIES & TRENDS 2010-2015**

## **Prospectus For An In-Depth Strategic Analysis**

**What is the current status of Tie-Layer Resins? What are the key growth drivers for Tie-Layer Resins? What is the expected future of Tie-Layer Resins? What are the emerging trends and new markets for Tie Layer Resins?**



**What are the large volume applications for Tie-Layer resin? What are the fastest growing applications for Tie-Layer Resins? What are the niche applications for grafted Polyolefins? How did the emerging economy impact the tie layer resin markets?**



**Who are the major suppliers of Tie-Layer Resins? What are the major applications catered by major suppliers? How has supplier's competitiveness and market reach changed?**



**What are the major technologies to manufacture Tie-Layer Resins? What are the latest technology developments? What are technology considerations for producing this resin? What is the typical cost structure of producing tie layer resin?**



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# **TIE-LAYER RESINS UPDATE 2010 – 2015**

## **Global Markets, Technologies and Trends**

### **INTRODUCTION**

Tie-Layer Resins commonly referred to acid or anhydride modified polyolefin resins, are largely used in multi-layered packaging structures to bond two dissimilar substrates. Tie-Layer Resins play an important role in the packaging industry because of constant changes, improvements and the introduction of new multilayered film structures in flexible and rigid packaging applications. The advent of tie-layer and barrier resins has added an entirely new dimension to the packaging industry with the introduction of multiple layered packaging structures. Tie-Layer offers excellent bonding characteristics when coextruded with barrier resins such as EVOH and Nylon. With several developing economy now relying on improved shelf life of packaged food, the consumption patterns for Tie-Layer Resin is rapidly changing.

In non-packaging applications such as automotive fuel tanks, multilayered plastic tanks, Tie-Layer Resins are increasingly finding applications in order to meet stringent environmental regulations against hydrocarbon emissions from cars/trucks. Recently, tie-layer resin has been rapidly finding its stable position in wood composite and coupling agents for PP applications. In addition, tie-layer resin has seen several niche applications, which are essential for packaging and construction sector.

### **STATUS OF TIE LAYER RESINS**

The Tie-Layer Resins industry has been traditionally stable and is approaching the mature stage of product life cycle. However, these products are recently been explored for several new applications and curiosity for tie-layer is gradually increasing especially, among major polyolefins suppliers.

Few of the major characteristics that the market will witness in next few years include:

- Tie-Layer Resins is expected to grow at 3.1% for next five year with some application and regions growing at a faster rate
- No major additions of suppliers in this industry. As it is a batch process suppliers will adjust capacity based on demand requirements
- Prices with some impact of raw material prices, Maleic anhydride content and applications
- Increased penetration of tie-layer resins in the regions other than North America, Western Europe, and Japan

### **AN UPDATE ON MULTICLIENT STUDY**

Chemical Market Resources, Inc., with our extensive experience in (1) functionalized polyolefins (2) acid copolymers & ionomers, (3) polyolefins and (4) packaging markets, is undertaking a global strategic business/technical analysis that reports on this fast-

changing intermaterial competition arena. Our in-depth examination and methodology are designed to assist companies in monitoring the rapid developments, analyzing the trends and capitalizing on the many opportunities in these changing markets and technologies.

### **MAJOR OBJECTIVES**

- *Define current status of the Tie-Layer Resin industry*
- *Assist Tie-Layer Resin suppliers in positioning and evaluating their market and technology development programs*
- *Assist Tie-Layer Resin producers and film converters in assessing market trends and intermaterial competition*
- *Assist major end users in selecting the appropriate type of Tie-Layer Resins and understanding manufacturing cost economics*
- *Assist suppliers in assessing the market attractiveness and opportunity in Tie-Layer Resins markets*
- *Develop detailed strategic analysis for Tie-Layer Resin markets*

### **KEY ISSUES TO BE ADDRESSED**

- *Outline of global Tie-Layer Resin markets*
- *Market/Technology positioning of major Tie-Layer Resin producers*
- *End use requirements for polyolefins resins and unmet needs of major Tie-Layer Resin producers*
- *In-depth analysis of the global Tie-Layer Resin markets*
- *Niche markets and New Applications for Tie-Layer Resin*
- *Participation Strategies for existing and potential producer in a mature market*
- *Detailed manufacturing cost analysis for Tie-Layer Resin*

## **TIMING & SUBSCRIPTION INFORMATION**

An order form is included as the last page of this prospectus. The price per report will be **\$10,000** which will include one paper copy and an electronic version (PDF) of the report.

## **APPROACH**

The information, data and conclusions of this analysis are developed from sources in North America, Western Europe and Asia-Pacific, Japan and Rest of World etc. and are based upon, but not limited to, the following methods:

- *Search, review and interpretation of information from government sources, trade and industry groups, public interest groups, government agencies, published articles and product promotional information*
- *Research of relevant patent technology and process details from producers*
- *Information from private experts and CMR proprietary projects*
- *Interviews with leading suppliers of polyolefins and Tie-Layer Resin, film converters, and major end-users in each market segment.*
- *Other multiclents completed by Chemical Market Resources, Inc.*
- *The manufacturing cost economics based on our extensive cost databases and interviews.*

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**2010-2015**

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