ExxonMobil Chemical is a global supplier of a broad portfolio of polymers and premium tackifiers to the adhesive industry with a focus on hot-melt adhesives (HMA) for packaging applications.

Hot-melt packaging applications include:
- Corrugated board
- Carton and side-seam closures, and corrugated case forming and sealing
- Non-pressure sensitive labels, signs, decals and marking systems
- Flexible packaging (carton labels, paper lamination to film, chipboard to chipboard lamination, string adhesives and PET bottle assembly)
- Specialty packaging (perfumes, cosmetics, candy, toys, jewelry)
- Composite containers and tubes (snack foods, motor oil cans, frozen juices, mailing tubes and fiber drums)

Escorez™ tackifiers are widely used in the packaging adhesive industry and are highly compatible with Escorene™ Ultra ethylene vinyl acetate (EVA) copolymers, ExxonMobil™ ethylene n-butyl acrylate (EnBA) copolymers and Vistamaxx™ performance polymers in formulations serving a variety of packaging applications.

Key advantages

Why use hot-melt adhesives in packaging applications?
- Can be used in high speed packaging machines
- Facilitates use of difficult substrates (functional coatings, recycled paper)
- Reduction of volatile organic compounds (VOC) compared to reactive and solvent-based adhesives
- Reduced energy and water use in adhesive production compared to water-based systems

Escorez™ tackifiers
**Escorez™ tackifiers - 5000 series**

Escorez™ 5000 series of hydrogenated tackifiers has a wide range of compositions, initial colors and molecular weights, tailor made for use with a variety of polymers in the formulation of adhesives systems for packaging applications.

| 5300, 5400 and 5600 series | • Designed with packaging in mind, they promote good adhesion to many substrates.  
• Provide the light color preferred for packaging, outstanding end-use performance, quality consistency and excellent balance of adhesion/cohesion. |

**Desirable product attributes include:**

| Quality consistency | • ExxonMobil Chemical's global manufacturing presence, based on state-of-the-art process technology, feedstock integration and a relentless drive for product quality, provides a reliable supply of high-performance products. All of our tackifier manufacturing sites are ISO 9001 compliant. |

| Thermal stability | • Hydrogenation provides increased thermal stability compared to non-hydrogenated resin - a valuable benefit for HMA applications. Better heat stability delivers color consistency throughout the manufacturing process.  
• Formulations made with Escorez 5000 series tackifiers are more resistant to char and gel formation, ensuring trouble-free processing and more reliable performance of packaging equipment over time. |

| Low odor | • Very desirable adhesive attribute in the workplace and in end-use products. |

| Polymer compatibility | • The combination of molecular composition and molecular weight provides a wide window of compatibility with other adhesive polymers.  
• Compatible with broadly used EVA copolymers and are highly miscible with metallocene polyolefins, both polyethylene and polypropylene-based. |

| Excellent color | • Low initial color and color stability also evident when formulated into EVA-based formulations. They are near water white and virtually free of color.  
• Their stability also provides excellent adhesive viscosity stability. |

**Escorez tackifiers 2000 series**

• Aromatic modified aliphatic resins have enhanced compatibility with polar materials such as EVA polymers.  
• Excellent tackifiers for styrene butadiene styrene (SBS) and styrene butadiene (SBR) type rubbers.  
• Often a cost-effective alternative in packaging applications.

**Escorez tackifiers 1000 series**

• As modifiers, these resins provide good compatibility with natural rubber, butyl rubber, SIS, polybutenes, low density polyethylene and atactic polypropylene.  
• They not only increase tack and adhesive properties but they can also modify the mechanical and optical properties of polymer blends.

**Specialty copolymers**

• Specialty copolymers are the workhorse polymers for hot-melt adhesive applications, such as case and carton sealing and graphic arts.  
• ExxonMobil Chemical offers specialty copolymers including Vistamaxx™ performance polymers, Escorene Ultra EVA, Optema™ ethylene methyl acrylate (EMA) copolymers modified with acrylic acid, ExxonMobil EnBA copolymers and Escor™ EMA-AA acid terpolymers.