Low viscosity grades of Vistamaxx™ performance polymers from ExxonMobil deliver high-performance, cost-effective hot melt adhesives used in packaging, hygiene and assembly applications.

Based on ExxonMobil’s proprietary metallocene technology, Vistamaxx polymers enable formulators to develop a new generation of premium hot melt adhesive (HMA) formulations that offer virtually odorless, trouble-free application for a more user-friendly work environment.

**HMA market trends**

Tremendous growth opportunities are being propelled by the growing global middle class that possess significant spending power and aspire to a modern lifestyle. This is driving higher demand for packaged goods, disposable diapers, adult incontinence products, and adhesive bonding to meet the trend toward using lightweight materials in cars.

To meet increased demand, hot melt adhesive formulators are looking for raw materials that offer, more adhesive mileage per kilogram (pound) and supply security. Produced from readily available feedstock, Vistamaxx polymers can offer that reliable supply.

**Benefits of Vistamaxx polymers for HMA**

Vistamaxx polymers offer a wide range of properties that help overcome many of the shortcomings of conventional hot melt adhesive backbones, including trouble-free attributes and improved stability.

They enable clear, odorless adhesives with good thermal stability, broad service temperature range, and excellent adhesion at extreme temperatures. Consistent tack to low energy substrates can be tailored and the low density delivers more adhesive mileage.

Because Vistamaxx polymers are metallocene polyolefins, formulators can create much cleaner and more reliable adhesives.
Vistamaxx™ 8880 for cardboard packaging

Vistamaxx 8880 is a low odor and low color polymer for hot melt adhesives used in case and carton sealing, and other packaging and assembly applications. With a stable, low viscosity of 1200 cP (mPa•s) and a density of 0.88 g/cm³, it enables formulations with high polymer loadings of 70-90%.

Novel low viscosity grade enables high polymer loading

Vistamaxx 8880 allows the polymer loading to be about double that of formulations using ethylene vinyl acetate or metallocene polyethylene. This leads to significantly lower density, lighter weight formulations which can provide cost savings because they yield more adhesive mileage per kilogram (pound). As a result, end users can use less adhesive to create a stronger bond. This offers greater value because more boxes can be secured with the same amount of adhesive.

Formulating with Vistamaxx polymers

Formulating with high polymer loadings requires the use of different types of additives. Vistamaxx polymers offer flexibility as they can be formulated with many different waxes and tackifiers. To enhance adhesion, polarity is required, while for fast set times high melt point waxes are needed.

HMA industry commitment

For over 50 years, we have delivered innovation and investment in new technologies and capacity to meet emerging market trends and increased demand from the hot melt adhesive industry. Our innovation has included the development of Escorez™ tackifying resins and Vistamaxx™ performance polymers made with proprietary metallocene catalysts. While, our most recent investment includes the world’s largest hydrogenated hydrocarbon resin unit to supply Escorez™ tackifying resins. Collaborating with leading HMA formulators and machine manufacturers, we leverage our expertise in polymers and tackifying resins solutions to create opportunities for growth.

Typical values

<table>
<thead>
<tr>
<th>Grade</th>
<th>Ethylene content</th>
<th>Density</th>
<th>Viscosity at 190°C (374°F)</th>
<th>Tensile stress at 100%</th>
<th>Tensile strength at break</th>
<th>Elongation at break</th>
<th>Glass transition, Tg</th>
<th>Melting Point, Tm</th>
</tr>
</thead>
<tbody>
<tr>
<td>8880</td>
<td>6.2</td>
<td>0.88</td>
<td>1200</td>
<td>52</td>
<td>4.0 (580)</td>
<td>6.2 (900)</td>
<td>-22</td>
<td>97</td>
</tr>
</tbody>
</table>

Whatever your needs, we are committed to bringing the added-value benefits of Vistamaxx polymers to your HMA formulation applications.

Contact us for more information: exxonmobilchemical.com/vistamaxx-adhesives

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