**Trilene® Liquid Polymers**

**Trilene® CP- 1100**

**Description**

Trilene® CP-1100 is a low molecular weight ethylene-propylene liquid copolymer, randomly polymerized to produce a liquid elastomer with a stable, saturated hydrocarbon backbone. It has thermal and oxidation stability under normal conditions. Trilene® CP-1100 can be used as a high viscosity thickener for a wide range of lubricant products providing good shear stability and low temperature characteristics.

**Typical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kinematic Viscosity at 100°C, cSt</td>
<td>1,100</td>
</tr>
<tr>
<td>Kinematic Viscosity at 40°C, cSt</td>
<td>22,500</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.853</td>
</tr>
<tr>
<td>Color, Gardner Equivalent</td>
<td>1</td>
</tr>
<tr>
<td>Flash Point, °C</td>
<td>&gt;250</td>
</tr>
<tr>
<td>Ethylene/Propylene</td>
<td>43/57</td>
</tr>
<tr>
<td>Molecular Weight, GPC</td>
<td>12,000</td>
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</tbody>
</table>

**Product Uses**

Trilene® CP-1100 can be used as a high viscosity base fluid or thickener – viscosity index improver or viscosity modifier – for a wide variety of engine and industrial lubricating oils, both mineral oil and synthetic based. Some examples:

* Gear Oils – both automotive and industrial  
* Bearing Lubricants / Circulating Oils  
* Compressor Oils  
* Greases

Trilene® CP-1100 is a viscous liquid, similar to conventional VI improvers. Typical usage levels for various high viscosity ISO grade products can be estimated using the chart at the right.
Product Uses (continued)

Low temperature characteristics are very important in synthetic lubricants. Some typical results, using Trilene® CP-1100, are demonstrated at the right.

The low molecular weight of the Trilene® CP-1100 means excellent shear stability. Examples, using the Sonic Shear and KRL (20 hour Tapered Bearing Shear Test) techniques are shown at the right.

Storage and Handling Temperatures
Trilene® CP-1100 is a viscous liquid polymer and is normally handled at elevated temperatures. For storage and handling purposes, the following maximum temperatures are recommended:

- **Storage**: 50°C (122°F)
- **Handling**: 120°C (250°F)

Health and Safety
Trilene® liquid polymers exhibit an extremely low level of dermal, oral and inhalation toxicity, as well as, low eye irritation. For more detailed information request an MSDS for this product.

Package Information
Product is shipped in tank trucks and non-returnable 55-gallon steel drums (300 lbs net).