



## **Product Data Sheet** *Epolene® N-11 Polymer*

### **Application/Uses**

- Automotive
- Building and Construction
- Graphic Arts
- Hot Melt Adhesives
- Packaging
- Solventborne Adhesives
- Wax Modification

### **Key Attributes**

- Aids in pigment dispersion
- Easy to melt blend with natural or synthetic waxes
- Improves physical properties of paper coatings
- Increases scuff and rub off resistance in inks
- Low density polyethylene (PE)

### **Product Description**

*Epolene* N-11 is a polyethylene (PE) homopolymer that can easily be melt blended with natural or synthetic waxes to increase the tensile strength of wax blends, improve the gloss of paper coatings, aid in pigment dispersion and mold release, and improve scuff and rub off resistance in printing inks. For these applications, six *Epolene* N-types, differing mainly in viscosity, are available to choose from (*Epolene* N-10, N-11, N-14, N-30, N-34, and N-35).

### **Typical Properties**

<b>Property</b>	<b>Test Method</b>	<b>Typical Value, Units</b>
Polymer Type		PE
Ring and Ball Softening Point	ASTM E 28	107°C
Penetration Hardness <sup>a</sup>	ASTM D 5	2 dmm
Viscosity, Brookfield @ 125°C (257°F)		350 cP

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Molecular Weight <sup>b</sup>

6,000

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<sup>a</sup> Needle under 100-g load for 5s @ 25 deg C, tenths of mm

<sup>b</sup> Molecular weight measured via Gel Permeation Chromatography (GPC) using polystyrene standards

## Comments

Properties reported here are typical of average lots. Westlake makes no representation that the material in any particular shipment will conform exactly to the values given.

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## Compatibility and Solubility

*Epolene* polymers are compatible with many polymers, resins, and natural and synthetic waxes.

## Packaging

*Epolene* N-11 polymer is supplied as free-flowing pellets, packaged in multiwall paper bags with a polyethylene coated inner liner [22.67 kg (50 lb) net weight]. The bags are palletized and stretch wrapped to prevent contamination during storage and shipment. Many *Epolene* polymers are also shipped in a variety of bulk containers.

*Epolene* N-11 polymer is available in powder form as *Epolene* N-11P polymer.

## Storage

The useful life of this product can be affected by storage and handling conditions. When stored in the original unopened container in an enclosed area and protected from moisture, extreme temperatures and contamination, this product is estimated to continue to meet applicable sales specifications for more than 4 years from the date of manufacture. First in first out (FIFO) inventory control is recommended.

It is your responsibility to determine that our product is safe, lawful and technically suitable for your intended uses. Please note that this letter is provided to you as one of the means to assist you in analyzing our product, and does not serve to modify or amend our sales contract or sales arrangement.

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