Westlake Chemical Corporation

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# Product Data Sheet

## *Epolene*® E-16 Polymer

### Application / Uses

- Automotive OEM
- Automotive refinish
- Automotive
- Building and Construction
- Hot Melt Adhesives
- Pressure Sensitive Adhesives
- Solventborne Adhesives
- Waterborne Adhesives
- Wax Modification

### Key Attributes

- Imparts slip resistance, durability, and toughness to floor finishes
- Low density polyethylene (PE)
- Oxidized to provide functionality
- Produces stable water based emulsions

## Product Description

*Epolene* E-16 is a low-density oxidized polyethylene having properties intermediate between *Epolene* E-10 and *Epolene* E-14. It provides stable, low-color emulsions by both atmospheric and pressure emulsification methods for such end uses as textiles, floor polishes, inks, and paint rheological additives.

## Typical Properties

| Property | Test Method | Typical Value, Units |
|---|---|---|
| Polymer Type | | Ox-PE |
| Acid Number (mg KOH/g) | | 17 |
| Ring and Ball Softening Point | ASTM E 28 | 102°C |
| Penetration Hardness [a] | ASTM D 5 | 4 dmm |
| Viscosity, Brookfield @ 125°C (257°F) | | 700 cP |
| Molecular Weight [b] | | 5,500 |

[a] *Needle under 100-g load for 5s @ 25 deg C, tenths of mm*
[b] *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.

## Compatibility and Solubility

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

## Packaging

*Epolene* E-16 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.

## 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 2 years from the date of manufacture. First in first out (FIFO) inventory control is recommended.