



## Product Data Sheet

### *Epolene®* E-20 Polymer

#### Application/Uses

- 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
- Useful as a lubricant for HDPE extrusion

#### Product Description

*Epolene* E-20 is a medium density, low molecular-weight oxidized polyethylene with exceptional hardness and low color. It has a low softening point and low viscosity, which give it the same desirable emulsification properties of a low-density oxidized polyethylene. The low softening point and low viscosity contribute to the hardness, short drying time, and excellent gloss in coatings. Pressure equipment is required for emulsification of this material. *Epolene* E-20 is an excellent performer in high-speed, buffable floor finishes. It improves buffability and durability.

#### 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	111 °C
Penetration Hardness <sup>a</sup>	ASTM D 5	<1 dmm
Viscosity, Brookfield @ 125 °C (257 °F)		1,500 cP
Molecular Weight <sup>b</sup>		7,500

<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 Chemical Corporation 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* E-20 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* E-20 polymer is available in powder form as *Epolene* E-20P 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 2 years from the date of manufacture. First in first out (FIFO) inventory control is recommended.