



Product Data Sheet

Epolene® E-10 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

Product Description

Epolene E-10 is a low molecular weight, low density, oxidized polyethylene. The low molecular weight and low softening point contribute to the production of stable, low color emulsions by both atmospheric (wax to water) and pressure emulsification methods. In water based emulsion floor finishes, it imparts good slip resistance, durability, toughness and durability to the polish film.

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 | 106°C |
| Penetration Hardness ^a | ASTM D 5 | 2 dmm |
| Viscosity, Brookfield @ 125°C (257°F) | | 800 cP |
| Molecular Weight ^b | | 6,100 |

^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-10 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 3 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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