

Technical Data Sheet

Applications

- Emulsions
- Solvent-borne Adhesives
- Waterborne Adhesives
- Wax Modification
- PVC Lubrication

Attributes

- Oxidized to provide functionality
- Produces stable water based emulsions
- Oxidized low density polyethylene

Product Description

EPOLENE® E-21 is an oxidized, medium density low molecular weight polyethylene used in emulsifiable applications. It's increased crystallinity provides excellent scratch and mar resistance to coated substrates compared to lower density emulsion polymers.

Typical Physical Properties

| Property ^a | Test Method ^b | Typical Value, Units ^c |
|-------------------------------|--------------------------|--|
| Density | D-1505 | 962 kg/m ³ (0.962 g/cm ³) |
| Acid Number | D-1386 | 16-19 mg-KOH/g |
| Penetration Hardness | D-5 | < 1 dmm |
| Mettler Drop Point | D-6090 | 114 - 120 °C |
| Brookfield Viscosity @ 125 °C | D-4287 | 250 - 500 cP |
| Yellowness Index | E-313 | ≤ 5 |

^a Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

^b Unless noted otherwise, the test method is ASTM.

^c Units are in SI or US customary units.

Packaging

EPOLENE® E-21 is offered in multiple package types. See your Westlake sales or technical representative for packaging offerings and availability.

Storage

The useful life of this product can be affected by storage and handling conditions. This product should be stored in the original unopened container in an enclosed area and protected from moisture, extreme temperatures, and contamination. First-in first-out (FIFO) inventory management is recommended.

Regulatory Compliance

This product has some 21 CFR clearances. Please contact your Westlake Sales Representative for food contact statements.

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