

Technical Data Sheet

Applications

- Automotive
- Compounding
- Hot melt adhesives
- Packaging
- Wax modification

Attributes

- Enhances paraffin wax coating properties like gloss, grease resistance, and MVTR
- Excellent thermal stability
- Maleic anhydride grafted PE provides functionality/adhesion to substrates
- Useful in color concentrates

Product Description

EPOLENE® C-18 is a branched low-density polyethylene modified with maleic anhydride. It is useful as a base polymer for adhesives and coatings, color concentrate dispersions, and applications requiring compatibility with polyamide. Coatings produced with EPOLENE® C-18 polymer exhibit high gloss, low moisture vapor transmission rates, grease resistance, and good heat-seal ability. In hot melt adhesives, the maleic anhydride modification allows for improved adhesion, greater filler tolerance, broader capabilities, and improved aging properties.

Typical Physical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
Density, g/cm ³	D-1505	0.905
Mettler Softening Point, °C	D-6090	104
Acid Number, mg KOH/g	D-1386	2.0
Brookfield Viscosity @ 150°C, cP	D-4287	4490
Melt Index @ 190 °C, g/10 min	D-1238	4200
Yellowness Index	E-313	-8.5

^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® C-18 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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