Manufacturer website: https://www.westlake.com/

Westlake Polyethylene™

EPOLENE® C-17

Low Molecular Weight Polymer

Technical Data Sheet

Applications

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

Attributes

- Enhances paraffin wax coating properties like gloss, grease resistance, and MVTR
- Excellent thermal stability
- Low color
- Useful in color concentrates

Product Description

EPOLENE® C-17 is a branched low-density polyethylene with a relatively high melt point and viscosity compared to other EPOLENE C-type Polymers. It is useful to modify paraffin wax to improve the blend viscosity, grease resistance, blocking temperature, scuff resistance, and gloss. EPOLENE® C-17 polymer commonly replaces granular LLDPE as the base polymer in color concentrates because it's easier to process and has higher output rates. EPOLENE® C-17 polymer has good high temperature stability, low color, low temperature flexibility, and excellent compatibility with various hydrocarbon tackifying resins.

Typical Physical Properties

Property [a]	Test Method [b]	Typical Value, Units [c]
Density, g/cm^3	D-1505	0.917
Vicat Softening Point, °C	D-1525	83
Melt Index @ 190 °C, g/10 min	D-1238	19
DSC Peak Melting Point, °C	D 3418	105
Tensile Strength @ Break, psi	D 638 Type IV	1240
Tensile Elongation @ Break, %	D 638 Type IV	95
Flexural Modulus – 1% Secant, psi	D 790	23,000
Durometer Hardness – Shore D	D 2240	50

[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-17 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.

Westlake makes no representation that the material in any particular shipment will conform exactly to the values given. Westlake and its marketing affiliates shall not be responsible for the use of this information, or of any product, method, or apparatus mentioned, and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of your employees and purchasers of your products. No warranty is made of the merchantability of fitness of any product, and nothing herein waives any of the Seller's conditions of sale.

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