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

Westlake Polyethylene™

EPOLENE® C-23

Low Molecular Weight Polymer

Technical Data Sheet

Applications

- Automotive carpet backing
- Compounding
- Extrusion coating
- Wax modification

Attributes

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

Product Description

EPOLENE® C-23 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 grease resistance, blocking temperature, scuff resistance, and gloss. EPOLENE® C-23 polymer is commonly used for extrusion coating of board stock. EPOLENE® C-23 polymer has good high temperature stability, low color and low temperature flexibility.

Typical Physical Properties

Property [a]	Test Method [b]	Typical Value, Units [c]
Density, g/cm^3	D-1505	0.909
Vicat Softening Point, °C	D-1525	72
Melt Index @ 190 °C, g/10 min	D-1238	80
DSC Peak Melting Point, °C	D 3418	101
Tensile Strength @ Break, psi	D 638 Type IV	990
Tensile Elongation @ Break, %	D 638 Type IV	90
Flexural Modulus – 1% Secant, psi	D 790	16,000
Durometer Hardness – Shore D	D 2240	49

[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-23 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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