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

Westlake Polyethylene™

EM182

Low Density Polyethylene

Technical Data Sheet

Applications

- Cosmetics/personal care packaging
- Container closures/lids
- Food packaging
- Furniture/furniture trim
- Medical
- Toys/sporting goods
- Injection molding

Product Description

Westlake EM182 is an LDPE resin used for injection molding. It is an outstanding material for molding lids and other container closures due to its ease of processing on automatic molding equipment, resulting in excellent gloss, clarity, and warpage resistance.

Typical Physical Properties

Property [a]	Test Method [b]	Typical Value, Units [c]
Melt Index (Condition 190°C/2.16 kg)	D 1238	20 g/10 min
Density	D 1505	920 kg/m^3 (0.920 g/cm^3)
Peak Melting Point by DSC (T_m)	D 3418	112.9°C (235.2°F)
Vicat Softening Temperature	D 1525	88.8°C (191.8°F)
Tensile Strength @ Break (500 mm/min, 20 in/min)	D 638 Type IV Specimen	8.3 MPa (1,200 psi)
Elongation @ Break (500 mm/min, 20 in/min)	D 638 Type IV Specimen	90 %
Flexural Modulus 1% Secant	D 790	227.5 MPa (33,000 psi)

[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.

Notes

Where required, test specimens are compression molded according to ASTM D 1928.

Processing

Melt temperatures of 300°F – 330°F are recommended for Westlake Chemical EM182.

Regulatory Compliance

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

Properties reported here are based on limited testing. 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.

Westlake Polymers LLC
2801 Post Oak Boulevard, Suite 600
Houston, Texas 77056
1.800.545.9577
www.westlake.com

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