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

Westlake Polyethylene™

EM1870

Low Density Polyethylene

Technical Data Sheet

Applications

- Medical / flexible medical
- Lids
- Injection molding

Product Description

Westlake EM1870 is an LDPE resin used for injection molding applications such as lids that require good stress-crack resistance.

Typical Physical Properties

Property [a]	Test Method [b]	Typical Value, Units [c]
Melt Index (Condition 190°C/2.16 kg)	D 1238	7.4 g/10 min
Density	D 1505	921 kg/m^3 (0.921 g/cm^3)
Peak Melting Point by DSC (T_m)	D 3418	112.8°C (235.0°F)
Vicat Softening Temperature	D 1525	91.0°C (195.8°F)
Tensile Strength @ Break (500 mm/min, 20 in/min)	D 638 Type IV Specimen	9.7 MPa (1,400 psi)
Elongation @ Break (500 mm/min, 20 in/min)	D 638 Type IV Specimen	400 %

[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 – 340°F are recommended for Westlake Chemical EM1870.

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.

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