

Technical Data Sheet

Applications

- Flexible medical
- Injection molding

Product Description

Westlake EM811 is a low-density polyethylene resin used for injection molding. It is characterized by high flow and low stiffness.

Typical Physical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
Melt Index	D 1238	20 g/10 min
Density	D 1505	916 kg/m ³ (0.916 g/cm ³)
Peak Melting Point by DSC (T _m)	D 3418	103°C (217°F)
Vicat Softening Temperature	D 1525	82°C (180°F)
Tensile Strength @ Break (500 mm/min, 20 in/min)	D 638 Type IV Specimen	9 MPa (1,300 psi)
Elongation @ Break (500 mm/min, 20 in/min)	D 638 Type IV Specimen	300 %
Flexural Modulus 1% Secant	D 790	172.4 MPa (25,000 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

Test specimens for blown film: nominal thickness 2.0 mils; blow up ratio 2.5:1, die gap 35 mils.

Processing

Melt temperatures of 360° F – 400° F are recommended for Westlake EM811 with blow-up ratios of 1.5:1 or higher

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.