



Westlake Polymers

Enhancing your life every day

EC1390

Low Density Polyethylene

Application/Uses

- Coatings for paper/paperboard

Product Description

WESTLAKE low-density polyethylene EC1390 is used primarily in extrusion-coating applications that require fast line speeds and relatively low coating weights. When compared with other low-density polyethylene coating materials that have considerably lower melt indexes, EC1390 has slightly better adhesion to paper substrates and can be heat-sealed at a slightly lower temperature. However, high melt index coating materials produce slightly more neck-in and a narrower heat-sealing temperature.

Typical Physical Properties

Property ^a	Test ^b Method	Typical Value, Units ^c
Melt Index (Condition 190°C/2.16 kg)	D 1238	15.0 g/10 min
Density	D 4883	915 kg/m ³ (0.915 g/cm ³)
Tensile Stress @ Break 500 mm/min (20 in./min)	D 638 Type IV	9.0 MPa (1300 psi)
Elongation @ Break 500 mm/min (20 in./min)	D 638 Type IV	300%
Flexural Modulus (2% Secant) 12.7 mm/min (0.5 in./min)	D 790	193 MPa (28,000 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

Kosher Compliant. Where required, test specimens are compression molded according to ASTM D1928.

FDA

This product has some 21 CFR clearances. Please contact Westlake Product Regulatory Department for statements.

PROCESSING

Melt temperatures of 575° F - 625° F are recommended for Westlake EC1390.

COMMENTS

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.

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