



Westlake Polymers

Enhancing your life every day

EBAC® SP1806

Application/Uses

- Extrusion coating / laminations
- Flexible Packaging
- Impact Modifier
- Compounding / high filler loadings

Key Attributes

- Good adhesion/compatibility to various substrates
- Good heat and RF sealing
- Low temperature toughness
- Soft, flexible, tough without plasticizers

Product Description

Westlake EBAC® SP1806 is an ethylene butyl acrylate copolymer designed for extrusion coating and laminating. SP1806 can also be compounded as an impact modifier or used in highly filled applications. Westlake EBAC® resins are less crystalline and softer than polyethylene and offer compatibility and adhesion to typically difficult to bond to polymers. SP1806 is non-corrosive at extrusion temperatures and has excellent thermal stability.

Typical Physical Properties

Property ^a	Test ^b Method	Typical Value, Units ^c
Melt Index (Condition 190°C/2.16 kg)	D 1238	7.3 g/10 min
Density	D 1505	0.925 kg/m ³ (0.925g/cm ³)
Vicat Softening Temperature	D 1525	55°C (131°F)
Butyl Acrylate Content (%BA)	Westlake	17.5%
Melting Point by DSC	D 3418	91°C (196°F)
Brittleness Temperature	D 746	<-73°C (<-99°F)
Durometer Hardness Shore D Scale	D 2240	40
Tensile Stress @ Break 500 mm/min (20 in./min)	D 638 Type IV Specimen	10 MPa (1400 psi)
Elongation @ Break 500 mm/min (20 in./min)	D 638 Type IV Specimen	730%

^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

EMAC® resins adhere to and are compatible with a wide range of materials including paper, polyolefins, oriented polyolefins, polyesters, ionomers, PVC, unplasticized PVC and other polar polymers for use as heat seal layer, adhesive layer, or modifier for cost/performance enhancement. They are soft, pliable and tough at ambient and freezing temperatures and exhibit excellent ESCR. These polymers exhibit high solids fillability and compatibility with a wide range of polymers. This facilitates their uses as bases for all-purpose concentrates for addition to a wide spectrum of polymers.

FDA

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

PROCESSING

Processing conditions for EMAC® and EBAC® resins will vary depending on application, fabrication equipment, and other resin use. For assistance with applications and temperature profiles, contact the Westlake Technical Services Department at

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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