



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 resin grade complies with 21 CFR 177.1340. For further information, please contact Product Regulatory Compliance.

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 Chemical Corporation Technical Services Department at 903-242-7693.

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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