

Applications

- Extrusion coating/laminations
- Flexible packaging
- Impact modifier
- Compounding/high filler loadings

Key Attributes

- Adhesion to & compatibility with various polymers
- Low temperature heat and RF sealing
- Low temperature flexibility
- Soft, flexible without plasticizers
- Excellent drawdown

Product Description

EBAC[®] SP1806 is a 17.5% ethylene butyl acrylate (EBA) copolymer designed for extrusion coating and laminating. EBAC[®] SP1806 can also be compounded as an impact modifier or used in highly filled applications. EBAC[®] resins are less crystalline and softer than polyethylene and offer compatibility and adhesion to typically difficult to bond to polymers. EBAC[®] SP1806 is non-corrosive at extrusion temperatures and has excellent thermal stability.

Typical Physical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
Butyl Acrylate Content	Westlake	17.5 weight %
Melt Index (Condition 190°C/2.16 kg)	D 1238	7.3 g/10 min
Density	D 1505	925 kg/m ³ (0.925 g/cm ³)
Vicat Softening Temperature	D 1525	59°C (138°F)
Melting Point by DSC (T _m)	D 3418	93°C (199°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 at Break (500 mm/min, 20 in/min)	D 638 Type IV Specimen	730%
Secant Modulus of Elasticity	D 790	56 MPa (8000 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

Butyl acrylate copolymers are soft, pliable, and tough at ambient and freezing temperatures. They exhibit high solids filling capability and compatibility with a wide range of polymers, facilitating their use as concentrate bases.

Processing

Processing conditions for butyl acrylate copolymers vary depending upon application, fabrication equipment, and other resin use. These resins are thermally stable and process like LDPE.

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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