Westlake Polyethylene™

EMAC+® SP1307

Ethylene Methyl Acrylate Block Copolymer

Technical Data Sheet

Applications

- Extrusion coatings and laminations
- Flexible packaging
- Heat seal layers
- Tubing
- Tie layers

Key Attributes

- Adhesion to & compatibility with various polymers
- Low temperature heat & RF sealing
- Low temperture flexibility
- Soft & flexible without plasticizers
- Higher heat resistance

Product Description

EMAC+® SP1307 is a 20% ethylene methyl acrylate (EMA) copolymer designed for extrusion coating, laminations, and blending. EMAC+® SP1307 is compatible with and provides increased adhesion to polyolefins, polyesters, and other polymers as a tie-layer, non-skid coating, or heat seal layer. The higher melting point of this EMAC+® grade offers EMA performance with improved heat resistance.

Typical Physical Properties

Property [a]	Test Method [b]	Typical Value, Units [c]
Methyl Acrylate Content	Westlake	20 weight %
Melt Index (Condition 190°C/2.16 kg)	D 1238	6.0 g/10 min
Density	D 1505	942 kg/m^3 (0.942 g/cm^3)
Vicat Softening Temperature	D 1525	46°C (114°F)
Melting Point by DSC (T_m)	D 3418	97°C (207°F)
Brittleness Temperature	D 746	< -73°C (< -99°F)
Durometer Hardness Shore D Scale	D 2240	36
Tensile Stress @ Break (500 mm/min, 20 in/min)	D 638 Type IV	10 MPa (1,380 psi)
Elongation @ Break (500 mm/min, 20 in/min)	D 638 Type IV	825%
Secant Modulus of Elasticity	D 790	42 MPa (6,000 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

The reported properties were measured from compression molded specimens prepared according to ASTM D 1928.

Processing

Processing conditions for methyl acrylate copolymer resins 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.

Westlake Polymers LLC
2801 Post Oak Boulevard, Suite 600
Houston, Texas 77056
1.800.545.9577
www.westlake.com