Westlake Polyethylene™

EMAC+® SP1501

Ethylene Methyl Acrylate Block Copolymer

Technical Data Sheet

Applications

- Extrusion Coatings/laminations
- Compounding/high filler loadings
- Hot melt adhesives
- Compatibilizer
- Masterbatch carrier resin

Key Attributes

- Good adhesion to various substrates
- Compatibility with many polymers
- Highly fillable
- Low viscosity
- Soft and flexible without plasticizers
- Higher heat resistance

Product Description

Westlake EMAC+® SP1501 is a 20% EMA copolymer designed for extrusion coating and compounding applications where low viscosity and flexibility are important. EMAC+® SP1501 provides excellent elasticity and low temperature performance. This resin can take very high filler loadings. A higher peak melting temperature than comparable EMA grades makes it a more viable choice for applications requiring more 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	25 g/10 min
Vicat Softening Temperature	D 1525	41°C (122°F)
Density	D 1505	941 kg/m³ (0.941 g/cm³)
Melting Point by DSC (T_m)	D 3418	96°C (205°F)
Brittleness Temperature	D 746	<-73°C (<-99°F)
Durometer Hardness Shore D Scale	D 2240	37
Tensile Stress @ Break (500 mm/min, 20 in/min)	D 638 Type IV	5.5 MPa (800 psi)
Tensile Stress @ Yield (500 mm/min, 20 in/min)	D 638 Type IV	3.9 MPa (560 psi)
Elongation @ Break (500 mm/min, 20 in/min)	D 638 Type IV	480%

[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 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.

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