EMAC+® SP1305

Ethylene Methyl Acrylate Block Copolymer

Applications

- Films – blown and cast
- Flexible packaging
- Heat seal layers
- Tie layers

Key Attributes

- Adhesion to & compatibility with various polymers
- Low temperature heat & RF sealing
- Low temperature flexibility
- Higher heat resistance

Product Description

EMAC+® SP1305 is a 20% EMA copolymer designed for blown and cast films as well as extrusion applications requiring flexibility, compatibility, and low heat seal temperatures. EMAC+® SP1305 has compatibility and adhesion properties with polyolefins, polyesters, and other polymers. It has outstanding low temperature performance. As with all EMAC+® grades, it has a higher melting point than EMA grades having the same comonomer content.

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)	D1238	2.0 g/10 min
Density	D1505	942 kg/m³ (0.942 g/cm³)
Vicat Softening Temperature	D1525	50°C (122°F)
Melting Point by DSC (T_m)	D3418	97°C (207°F)
Brittleness Temperature	D746	< -73°C (< -99°F)
Durometer Hardness Shore D Scale	D2240	37
Tensile Strength @ Break (500 mm/min, 20 in/min)	D 638 Type IV Specimen	11 MPa (1620 psi)
Elongation @ Break (500 mm/min, 20 in/min)	D 638 Type IV Specimen	815%

[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

Methyl 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 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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