Westlake Polyethylene™

EMAC+® SP1358

Ethylene Methyl Acrylate Block Copolymer

Technical Data Sheet

Applications

- Films – blown and cast
- Disposable gloves & instrument covers
- Medical drapes
- Silk/quiet Films

Key Attributes

- Low coefficient of friction
- Fully formulated with slip & antiblock
- Softness & flexibility

Product Description

EMAC+® SP1358 is a 21.5% EMA copolymer containing slip and antiblock. This resin is designed for blown or cast film where flexibility and low C.O.F. are required. 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	21.5 weight %
Melt Index (Condition 190°C/2.16 kg)	D 1238	2.6 g/10 min
Density	D 1505	948 kg/m³ (0.948 g/cm³)
Vicat Softening Temperature	D 1525	44°C (111°F)
Durometer Hardness Shore D Scale	D 2240	32
Haze	D 1003	15%
Gloss @ 45°	D 2457	45
Dart Impact	D 1709A	400 g
Elmendorf Tear Resistance (MD / TD)	D 1922	70 gf/ 170gf
Film Tensile Strength @ Break (MD / TD)	D 882	16.5 MPa (2,400 psi) / 13.8 MPa (2,000 psi)
Film Tensile Elongation @ Break (MD / TD)	D 882	500% / 750%
Film Tensile Modulus, 1% Secant (MD / TD)	D 882	38.6 MPa (5,600 psi) / 28.3 MPa (4,100 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

Test specimens for blown film: nominal thickness 2.0 mils; blow up ratio 2.5:1, die gap 35 mils.

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.

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