Westlake Polyethylene™

EMAC® SP2255

Ethylene Methyl Acrylate 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® SP2255 is a 17% EMA copolymer containing slip and antiblock. This resin is designed for blown or cast film where flexibility, softness, and lower C.O.F. are required. EMAC® SP2255 provides excellent adhesion to polyolefins, polyesters, and other polymers while providing outstanding low temperature performance.

Typical Physical Properties

Property [a]	Test Method [b]	Typical Value, Units [c]
Melt Index (Condition 190°C/2.16 kg)	D 1238	2.1 g/10 min
Density	D 1505	942 kg/m³ (0.942 g/cm³)
Vicat Softening Temperature	D 1525	55°C (131°F)
Brittleness Temperature	D 746	< -73°C (< -99°F)
Durometer Hardness Shore D Scale	D 2240	37
Haze	D 1003	53%
Gloss @ 45°	D 2457	15
Dart Impact	D 1709	300 g
Elmendorf Tear Resistance (MD / TD)	D 1922	70 gf / 400 gf
Tensile Strength @ Break (MD / TD)	D 822	22 MPa (3,280 psi) / 20 MPa (2,530 psi)
Elongation @ Break (MD / TD)	D 822	470% / 720%
Tensile Modulus, 1% Secant (MD / TD)	D 822	52 MPa (8,467 psi) / 62 MPa (8,933 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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