

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/m ³ (0.942 g/cm ³) |
| 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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