

ELEVATE™ EF522

Ethylene Vinyl Acetate Copolymer

Westlake Chemical Corporation

Message:

Westlake ELEVATE™ EF522 is an ethylene vinyl acetate copolymer with 12% VA. EF522 is designed for blown and cast films requiring excellent optics and low heat seal initiation. High melt strength makes this material an excellent choice for profile extrusions, molding, and foaming applications requiring medium VA content.

Application/Uses:

- Flexible packaging films
- Peelable seals, adhesive layers
- Injection and blow molding
- Profile extrusions, tubing, wire & cable

| General Information | | | |
|----------------------------------|-----------------------------|-------------------|-------------|
| Features | Copolymer | | |
| | Optical | | |
| | Good heat sealability | | |
| | Good melt strength | | |
| Uses | Packaging | | |
| | Films | | |
| | Blow molding applications | | |
| | Wire and cable applications | | |
| | Pipe fittings | | |
| | cast film | | |
| | Foam | | |
| | Profile | | |
| | Adhesive | | |
| Agency Ratings | FDA 21 CFR 177.1350 | | |
| Processing Method | Blow film | | |
| | cast film | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.933 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) | 2.5 | g/10 min | ASTM D1238 |
| Vinyl Acetate Content | 12.0 | wt% | |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 33 | µm | |
| secant modulus ¹ | | | ASTM D882 |
| 1% secant, MD: 33 µm, blown film | 72.4 | MPa | ASTM D882 |
| 1% secant, TD: 33 µm, blown film | 79.3 | MPa | ASTM D882 |

| Tensile Strength ² | | | ASTM D882 |
|---|---------------|------|-------------|
| MD: Broken, 33 µm, blown film | 26.9 | MPa | ASTM D882 |
| TD: Broken, 33 µm, blown film | 22.1 | MPa | ASTM D882 |
| Tensile Elongation ³ | | | ASTM D882 |
| MD: Broken, 33 µm, blown film | 300 | % | ASTM D882 |
| TD: Broken, 33 µm, blown film | 800 | % | ASTM D882 |
| Dart Drop Impact ⁴ (33 µm, Blown Film) | 240 | g | ASTM D1709 |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 70.0 | °C | ASTM D1525 |
| Peak Melting Temperature | 94.0 | °C | ASTM D3418 |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (45 °, 33.0 µm, blown film) | 84 | | ASTM D2457 |
| Haze (33.0 µm, blown film) | 2.3 | % | ASTM D1003 |
| Additional Information | Nominal Value | Unit | |
| Blown Film Melt Temperature | | °C | |
| Cast Film Melt Temperature | | °C | |

Typical film property as measured on a 1.3 mil blown film sample fabricated at a 2.5:1 B.U.R.

NOTE

- | | |
|----|---|
| 1. | Test run at 23°C (73°F) and 50% relative humidity |
| 2. | Test run at 23°C (73°F) and 50% relative humidity |
| 3. | Test run at 23°C (73°F) and 50% relative humidity |
| 4. | Test run at 23°C (73°F) and 50% relative humidity |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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