

ELEVATE™ EF437

Ethylene Vinyl Acetate Copolymer

Westlake Chemical Corporation

Message:

Westlake EF437 resin is a 2.5% EVA copolymer designed for films that require excellent optical and strength properties. This Kosher compliant resin has excellent heat sealing characteristics and low temperature brittleness properties.

Application/Uses:

- High Clarity Packaging
- Light and Medium Duty Produce Bags
- Linear Blend Component for Sealing and Clarity

| General Information | | | |
|---|-----------------------------|-------------------|-------------|
| Features | Kosher certification | | |
| | Low Temperature Flexibility | | |
| | High strength | | |
| | Copolymer | | |
| | Optical | | |
| | Good heat sealability | | |
| | Definition, high | | |
| Uses | Packaging | | |
| | Films | | |
| | Bags | | |
| | Mixing | | |
| Agency Ratings | FDA 21 CFR 177.1350 | | |
| Processing Method | Blow film | | |
| | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.925 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.0 | g/10 min | ASTM D1238 |
| Vinyl Acetate Content | 2.5 | wt% | |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 32 | µm | |
| secant modulus ¹ | | | ASTM D882 |
| 1% secant, MD: 32 µm, blown film | 138 | MPa | ASTM D882 |
| 1% secant, TD: 32 µm, blown film | 152 | MPa | ASTM D882 |
| Tensile Strength ² | | | ASTM D882 |
| MD: Broken, 32 µm, blown film | 24.0 | MPa | ASTM D882 |
| TD: Broken, 32 µm, blown film | 17.0 | MPa | ASTM D882 |

| | | | |
|---|---------------|------|-------------|
| Tensile Elongation ³ | | | ASTM D882 |
| MD: Broken, 32 µm, blown film | 350 | % | ASTM D882 |
| TD: Broken, 32 µm, blown film | 700 | % | ASTM D882 |
| Dart Drop Impact ⁴ (32 µm, Blown Film) | 150 | g | ASTM D1709A |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (45°, 31.8 µm, Blown Film) | 79 | | ASTM D2457 |
| Haze (31.8 µm, Blown Film) | 3.3 | % | ASTM D1003 |

Additional Information

Test specimens for blown film: nominal thickness 1.25 mils; blow up ratio 2.5:1, die gap 35 mils.

| | | |
|------------------|---------------|------|
| Extrusion | Nominal Value | Unit |
| Melt Temperature | 182 - 199 | °C |

Extrusion instructions

Melt temperatures of 360° F - 390° F are recommended for Westlake Chemical EF437 with blow-up ratios of 1.5:1 or higher.

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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