

CERTENE™ EDF-224J

Ethylene Vinyl Acetate Copolymer
Muehlstein

Message:

EDF-224J is a certified prime grade 5% ETHYLENE VINYL ACETATE (EVA) copolymer designed for production of specialty Blown films requiring excellent balance of mechanical and optical properties. EDF-224J films exhibit outstanding clarity, good toughness and impact strength, and superior sealability. EDF-224J applications include Form-Fill-Seal packaging, ice bags, frozen food, poultry bags, and cling wrap. EDF-224J contains No slip and High antiblock. EDF-224J complies with FDA regulation 21CFR 177.1350 concerning EVA copolymers in contact with food articles.

| General Information | | | |
|---|-----------------------------|-------------------|-------------|
| Additive | High caking resistance | | |
| Features | Broad Seal Range | | |
| | High caking resistance | | |
| | Copolymer | | |
| | Impact resistance, good | | |
| | Definition, high | | |
| | Good toughness | | |
| | Compliance of Food Exposure | | |
| Uses | Packaging | | |
| | Films | | |
| | Bags | | |
| Agency Ratings | FDA 21 CFR 177.1350 | | |
| Forms | Particle | | |
| Processing Method | Blow film | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.924 | 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 | 5.0 | wt% | |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 38 | µm | |
| secant modulus | | | ASTM D882 |
| 1% secant, MD: 38 µm, blown film | 127 | MPa | ASTM D882 |
| 1% secant, TD: 38 µm, blown film | 146 | MPa | ASTM D882 |
| Tensile Strength | | | ASTM D882 |
| MD: Broken, 38 µm, blown film | 25.1 | MPa | ASTM D882 |
| TD: Broken, 38 µm, blown film | 23.9 | MPa | ASTM D882 |
| Tensile Elongation | | | ASTM D882 |
| MD: Broken, 38 µm, blown film | 190 | % | ASTM D882 |

| TD: Broken, 38 μm, blown film | 590 | % | ASTM D882 |
|---|---------------|------|-------------|
| Dart Drop Impact ¹ (38 μm, Blown Film) | 170 | g | ASTM D1709A |
| Elmendorf Tear Strength | | | ASTM D1922 |
| MD: 38 μm, blown film | 160 | g | ASTM D1922 |
| TD: 38 μm, blown film | 75 | g | ASTM D1922 |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (45°, 38.1 μm, Blown Film) | 74 | | ASTM D2457 |
| Haze (38.1 μm, Blown Film) | 4.0 | % | ASTM D1003 |
| Additional Information | | | |
| Film Specimen: 1.5 mils (38 μm) film; melt temperature 350-370°F (175-185°C); blow-up-ratio 2.5:1. Film made with low slip, low AB version. | | | |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 177 - 188 | °C | |
| NOTE | | | |
| 1. | F50 | | |

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