



# Formolene® FR2233K2

## Fractional Melt LDPE Resin with Antiblock

Formolene® FR2233K2 is a low-density polyethylene exhibiting medium optical properties in film. Formolene® FR2233K2 is formulated with antiblock for use in high performance film applications offering excellent extrusion processing and outstanding melt strength characteristics suitable for thick film gauges and large lay flat widths.

Formolene® FR2233K2 meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520 for food packaging, covering safe use of polyolefin articles intended for direct food contact.

### Suggested Applications:

|                     |                                   |                   |
|---------------------|-----------------------------------|-------------------|
| Agricultural Film   | Heavy Duty                        | Bags Foams        |
| Construction Film   | Pallet Shrink Film                | Profile Extrusion |
| Food Packaging Film | High Performance Collation Shrink |                   |

### Nominal Physical Properties:

| PROPERTY                               | TEST METHOD | UNIT     | VALUE        |
|--|-------------|----------|--------------|
| Density                                | D1505       | g/cc     | 0.924        |
| Melt Index, Condition E, 190C°/2.16 kg | D1238       | g/10 min | 0.33         |
| Dart Impact                            | D1709       | g        | 186          |
| Elmendorf Tear Strength                | D1922       | g        | 159/115*     |
| Tensile Strength at Yield              | D882        | psi      | 2067/1809*   |
| Tensile Strength at Break              | D882        | psi      | 4289/3303*   |
| Elongation at Break                    | D882        | %        | 302/582*     |
| Secant Modulus @ 1%                    | D882        | psi      | 27300/42500* |
| Haze                                   | D1003       | %        | 19           |

\* MD / TD

Note: Film properties based on 2.0 mil (50.8 micron) thick blown film produced with a 150 mm (5.90 in.) die diameter, a 1.0 mm (39.4 thou) die gap, a 2.5:1 Blow Up Ratio, and a specific output rate of 8.5 (lb./hr.)/in. die circ. Actual film properties may vary based on extrusion equipment, operating conditions and additive package. Film properties are not intended to be used as specifications.

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