



Formosa Plastics®

Formolene® L42009E2

Linear Low Density Polyethylene (LLDPE) Resin Butene Copolymer for Film Extrusion Applications

Formolene® L42009E2 is a general-purpose film grade linear low density made using gas-phase technology. The resin exhibits excellent toughness and strength when drawn down to thin gauges.

Formolene® L42009E2 meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

Suggested Applications:

| | |
|----------------------|-------------------|
| Blending Resin | Industrial Liners |
| Industrial Packaging | Garment Bags |
| Co-Extrusion | |

Nominal Physical Properties:

| PROPERTY | ASTM TEST METHOD | UNIT | VALUE |
|--|------------------|-----------|--------------|
| Density | D1505 | g/cc | 0.919 |
| Melt Index, Condition E, 190°C/2.16 kg | D1238 | g/10 min. | 0.95 |
| Dart Impact | D1709 | g/mil. | 135 |
| Tear Strength | D1922 | g/mil. | 150/385* |
| Tensile Strength at Break | D882 | psi. | 5,100/4,130* |
| Elongation | D882 | % | 690/920* |
| Gloss, 45° | D523 | | 40 |
| Haze | D1003 | % | 20 |

* MD / TD

Available in the following additive packages:

| Additive | L42009A | L42009B | L42009E2 | L42009F | L42009H | L42009M | L42009PE** |
|-----------------|----------------------|---------|---------------------------|----------------------|------------------|----------------------|---------------------------|
| Antiblock (ppm) | 7500 | None | 1700 | 7000 | None | 8000 | 1700 |
| Slip (ppm) | None | None | 1350 | 1350 | None | 1500 | 1350 |
| Special | Additives talc based | - | Additives synthetic based | Additives talc based | High Antioxidant | Additives talc based | Additives synthetic based |

** Contains processing aid

Note: Film Properties based on 25 Micron blown film produced with a 2.5:1 Blow Up Ratio. Actual film properties may vary depending on operating conditions and additive packages. Film properties are not intended to be used as specifications.

Published 08/01/04, Revised 01/11/16

Any inquiries regarding this data sheet should be addressed to: 9 Peach Tree Hill Road • Livingston, NJ 07039 • Phone: (888) FPCUSA3 • Fax: (973) 422-7772

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions concerning uses or applications are only the opinion of FORMOSA PLASTICS CORPORATION, U.S.A. and users should perform their own tests to determine the suitability of these products for their own particular purposes. However, because of numerous factors affecting the results, FORMOSA PLASTICS CORPORATION, U.S.A. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, other than that the material conforms to the applicable current Standard Specifications Statements herein, therefore, should not be construed as representations or warranties. The responsibility of FORMOSA PLASTICS CORPORATION, U.S.A. for claims arising out of breach of warranty, negligence, strict liability or otherwise is limited to the purchase price of the material. Statements concerning the use of the products of formulations described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is assumed.