



## Formolene FORMAX® L91507A

Formosa Plastics Corporation, U.S.A. - Linear Low Density Polyethylene

Tuesday, November 5, 2019

### General Information

#### Product Description

Formolene FORMAX® L9 is a high strength linear low density polyethylene. Film mechanical properties are significantly improved compared to competitive super hexene LLDPE film resins.

Formolene FORMAX® L9 is formulated with slip and antiblock for use in high performance film applications offering excellent extrusion processing and outstanding impact strength and tear resistance. Films exhibit superior sealing characteristics and good optical properties.

Formolene FORMAX® L9 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:

- Industrial Packaging
- Industrial Liners
- Food Packaging
- Can Liners
- Consumer Trash Bags
- Coextrusion

#### General

|                   |                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material Status   | • Commercial: Active                                                                                                                                 |
| Availability      | • North America                                                                                                                                      |
| Additive          | • High Antiblock: 7000 ppm <sup>1</sup>                                                                                                              |
| Features          | • Food Contact Acceptable<br>• Good Impact Resistance<br>• Good Optical Properties<br>• Good Tear Strength<br>• High Antiblocking<br>• High Strength |
| Uses              | • Bags<br>• Food Packaging<br>• Industrial Applications<br>• Liners<br>• Packaging                                                                   |
| Agency Ratings    | • EC 1907/2006 (REACH)<br>• FDA 21 CFR 177.1520                                                                                                      |
| Forms             | • Pellets                                                                                                                                            |
| Processing Method | • Coextrusion<br>• Film Extrusion                                                                                                                    |

### ASTM & ISO Properties <sup>2</sup>

| Physical                                              | Nominal Value | Unit              | Test Method |
|-------------------------------------------------------|---------------|-------------------|-------------|
| Density                                               | 0.916         | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Mass-Flow Rate (190°C/2.16 kg)                   | 0.80          | g/10 min          | ASTM D1238  |
| Films                                                 | Nominal Value | Unit              | Test Method |
| Film Thickness - Tested                               | 1             | mil               |             |
| Tensile Strength - MD (Yield, 0.98 mil, Blown Film)   | 1530          | psi               | ASTM D882   |
| Tensile Strength - TD (Yield, 0.98 mil, Blown Film)   | 1530          | psi               | ASTM D882   |
| Tensile Strength - MD (Break, 0.98 mil, Blown Film)   | 5700          | psi               | ASTM D882   |
| Tensile Strength - TD (Break, 0.98 mil, Blown Film)   | 5000          | psi               | ASTM D882   |
| Tensile Elongation - MD (Break, 0.98 mil, Blown Film) | 670           | %                 | ASTM D882   |
| Tensile Elongation - TD (Break, 0.98 mil, Blown Film) | 880           | %                 | ASTM D882   |
| Dart Drop Impact (0.98 mil, Blown Film)               | 520           | g                 | ASTM D1709  |
| Elmendorf Tear Strength - MD (0.98 mil, Blown Film)   | 480           | g                 | ASTM D1922  |
| Elmendorf Tear Strength - TD (0.98 mil, Blown Film)   | 650           | g                 | ASTM D1922  |
| Seal Initiation Temperature (2.0 mil)                 | 212           | °F                |             |

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## Notes

<sup>1</sup> talc based

<sup>2</sup> Typical properties: these are not to be construed as specifications.

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