



## Formolene® L42022B

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

Tuesday, November 5, 2019

### General Information

#### Product Description

Formolene® L42022B is a general-purpose film grade linear low density made using gas-phase technology. Formolene® L42022B exhibits excellent toughness and strength when drawn down to thin gauges in blown and cast film applications.

Formolene® L42022B 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.

#### General

|                   |                                                                    |                                                                  |                         |
|-------------------|--------------------------------------------------------------------|------------------------------------------------------------------|-------------------------|
| Material Status   | • Commercial: Active                                               |                                                                  |                         |
| Availability      | • North America                                                    |                                                                  |                         |
| Features          | • Additive Free<br>• Butene Comonomer<br>• Food Contact Acceptable | • General Purpose<br>• Good Drawdown<br>• Good Strength          | • Good Toughness        |
| Uses              | • Blending<br>• Cast Film<br>• Film                                | • General Purpose<br>• Industrial Applications<br>• Laundry Bags | • Liners<br>• Packaging |
| Agency Ratings    | • EC 1907/2006 (REACH)                                             | • FDA 21 CFR 177.1520                                            |                         |
| Forms             | • Pellets                                                          |                                                                  |                         |
| Processing Method | • Blown Film<br>• Cast Film                                        | • Coextruded Film<br>• Coextrusion                               |                         |

### ASTM & ISO Properties <sup>1</sup>

| Physical                                  | Nominal Value | Unit              | Test Method |
|-------------------------------------------|---------------|-------------------|-------------|
| Density                                   | 0.919         | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Mass-Flow Rate (190°C/2.16 kg)       | 2.0           | g/10 min          | ASTM D1238  |
| Films                                     | Nominal Value | Unit              | Test Method |
| Film Thickness - Tested                   | 1             | mil               |             |
| Tensile Strength - MD (Break, 0.98 mil)   | 3900          | psi               | ASTM D882   |
| Tensile Strength - TD (Break, 0.98 mil)   | 2700          | psi               | ASTM D882   |
| Tensile Elongation - MD (Break, 0.98 mil) | 600           | %                 | ASTM D882   |
| Tensile Elongation - TD (Break, 0.98 mil) | 800           | %                 | ASTM D882   |
| Dart Drop Impact (0.98 mil)               | 65            | g                 | ASTM D1709  |
| Elmendorf Tear Strength - MD (0.98 mil)   | 110           | g                 | ASTM D1922  |
| Elmendorf Tear Strength - TD (0.98 mil)   | 570           | g                 | ASTM D1922  |
| Optical                                   | Nominal Value | Unit              | Test Method |
| Gloss (45°, 0.984 mil)                    | 40            |                   | ASTM D2457  |
| Haze (0.984 mil)                          | 35.0          | %                 | ASTM D1003  |

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.