



## Formolene® 1202K

Formosa Plastics Corporation, U.S.A. - Polypropylene Homopolymer

Tuesday, November 5, 2019

### General Information

#### Product Description

Formolene® 1202K is a high molecular weight, polypropylene homopolymer designed for biaxially oriented film (BOPP). It has been designed for improved processability in the orientation process, which also results in better end use performance than existing grades. It does not contain slip or antiblock.

Formolene® 1202K meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles and components of articles intended for direct food contact.

This material is free of animal-derived content.

#### General

|                   |                                                    |                                          |                                |
|-------------------|----------------------------------------------------|------------------------------------------|--------------------------------|
| Material Status   | • Commercial: Active                               |                                          |                                |
| Availability      | • North America                                    |                                          |                                |
| Features          | • Food Contact Acceptable<br>• Good Processability | • High Molecular Weight<br>• Homopolymer | • No Animal Derived Components |
| Uses              | • Bi-axially Oriented Film                         |                                          |                                |
| Agency Ratings    | • EC 1907/2006 (REACH)                             | • FDA 21 CFR 177.1520                    |                                |
| Forms             | • Pellets                                          |                                          |                                |
| Processing Method | • Bi-axially Oriented Film                         |                                          |                                |

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

| Physical                                                     | Nominal Value | Unit              | Test Method |
|--------------------------------------------------------------|---------------|-------------------|-------------|
| Density                                                      | 0.900         | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Mass-Flow Rate (230°C/2.16 kg)                          | 3.0           | g/10 min          | ASTM D1238  |
| Mechanical                                                   | Nominal Value | Unit              | Test Method |
| Tensile Strength <sup>2</sup> (Yield, Injection Molded)      | 4930          | psi               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Yield, Injection Molded)    | 10            | %                 | ASTM D638   |
| Flexural Modulus - 1% Secant <sup>3</sup> (Injection Molded) | 200000        | psi               | ASTM D790   |
| Impact                                                       | Nominal Value | Unit              | Test Method |
| Notched Izod Impact (73°F, Injection Molded)                 | 0.51          | ft-lb/in          | ASTM D256A  |
| Hardness                                                     | Nominal Value | Unit              | Test Method |
| Rockwell Hardness (R-Scale, Injection Molded)                | 104           |                   | ASTM D785   |

#### Notes

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

<sup>2</sup> 2.0 in/min

<sup>3</sup> 0.051 in/min