



## Formolene® 6613N

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

Tuesday, November 5, 2019

### General Information

#### Product Description

Formolene® 6613N is a copolymer of polypropylene designed for heavy duty injection molding applications. It offers advantages in both processing and physical properties over many polypropylenes used for pails, crates and other rugged, injection molded applications.

Formolene® 6613N 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          | • Copolymer<br>• Food Contact Acceptable | • Good Impact Resistance<br>• Good Stiffness | • No Animal Derived Components |
| Uses              | • Crates                                 | • Pails                                      |                                |
| Agency Ratings    | • EC 1907/2006 (REACH)                   | • FDA 21 CFR 177.1520                        |                                |
| Forms             | • Pellets                                |                                              |                                |
| Processing Method | • Injection Molding                      |                                              |                                |

### 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)                          | 12            | g/10 min          | ASTM D1238  |
| Mechanical                                                   | Nominal Value | Unit              | Test Method |
| Tensile Strength <sup>2</sup> (Yield, Injection Molded)      | 3340          | psi               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Yield, Injection Molded)    | 5.0           | %                 | ASTM D638   |
| Flexural Modulus - 1% Secant <sup>3</sup> (Injection Molded) | 165000        | psi               | ASTM D790   |
| Impact                                                       | Nominal Value | Unit              | Test Method |
| Notched Izod Impact                                          |               |                   | ASTM D256A  |
| -18°F, Injection Molded                                      | 2.1           | ft-lb/in          |             |
| 32°F, Injection Molded                                       | 2.5           | ft-lb/in          |             |
| 73°F, Injection Molded                                       | 10            | ft-lb/in          |             |
| Hardness                                                     | Nominal Value | Unit              | Test Method |
| Rockwell Hardness (R-Scale, Injection Molded)                | 90            |                   | ASTM D785   |
| Thermal                                                      | Nominal Value | Unit              | Test Method |
| Deflection Temperature Under Load                            |               |                   | ASTM D648   |
| 66 psi, Unannealed, Injection Molded                         | 212           | °F                |             |
| Deflection Temperature Under Load                            |               |                   | ASTM D648   |
| 264 psi, Unannealed, Injection Molded                        | 124           | °F                |             |

#### 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