

## Formosa Plastics Formolene® 2315N Impact Copolymer Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , Polypropylene, Impact Modified; Molded/Extruded

### Material Notes:

Impact Copolymer for Injection Molding Applications Requiring Stiffness Formolene® 2315N is a high flexural modulus copolymer of polypropylene designed and formulated for injection-molded applications. It contains a unique combination of stabilizers, nucleators and antistat that provides an excellent balance of stiffness and impact strength. Formolene® 2315N meets all 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. Specimens were injection molded according to the conditions specified in ASTM D4101 Information provided by Formosa Plastics Corporation, USA

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Formosa-Plastics-Formolene-2315N-Impact-Copolymer-Polypropylene.php](http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-2315N-Impact-Copolymer-Polypropylene.php)

| Physical Properties | Metric                             | English                            | Comments                  |
|---------------------|------------------------------------|------------------------------------|---------------------------|
| Density             | 0.900 g/cc                         | 0.0325 lb/in <sup>3</sup>          | ASTM D1505                |
| Melt Flow           | 15 g/10 min<br>@Temperature 230 °C | 15 g/10 min<br>@Temperature 446 °F | I<sub>2</sub>; ASTM D1238 |

| Mechanical Properties   | Metric                              | English                               | Comments                            |
|-------------------------|-------------------------------------|---------------------------------------|-------------------------------------|
| Hardness, Rockwell R    | 95                                  | 95                                    | ASTM D785                           |
| Tensile Strength, Yield | 28.3 MPa                            | 4100 psi                              | 2" (50mm) per min; ASTM D638        |
| Elongation at Yield     | 6.0 %                               | 6.0 %                                 | 2" (50mm) per min; ASTM D638        |
| Flexural Modulus        | 1.45 GPa                            | 210 ksi                               | 1.3mm per min, 1% secant; ASTM D790 |
| Izod Impact, Notched    | 0.641 J/cm<br>@Temperature 0.000 °C | 1.20 ft-lb/in<br>@Temperature 32.0 °F | ASTM D256                           |
|                         | 0.854 J/cm<br>@Temperature 23.0 °C  | 1.60 ft-lb/in<br>@Temperature 73.4 °F | ASTM D256                           |

| Thermal Properties                          | Metric | English | Comments  |
|---------------------------------------------|--------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 110 °C | 230 °F  | ASTM D648 |

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