# Formolene® 3312B

Polypropylene Random Copolymer

Formosa Plastics Corporation, U.S.A.

## Message:

Random Copolymer for Storage Boxes, Pill Vials and Containers
Formolene® 3312B is a medium melt flow random copolymer with fast cycle time and easy mold release. It is designed for injection molding applications. Its clarity makes it an excellent choice for "see-through" housewares and rigid packaging.
Formolene® 3312B 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.

| General Information | | | |
|---|---|---|---|
| Features | Fast Molding Cycle<br>Food Contact Acceptable<br>Good Mold Release<br>High Clarity<br>Medium Flow<br>Random Copolymer | | |
| Uses | Containers<br>Household Goods<br>Pharmaceutical Packaging<br>Rigid Packaging | | |
| Agency Ratings | EC 1907/2006 (REACH)<br>FDA 21 CFR 177.1520 | | |
| Appearance | Clear/Transparent | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 0.900 | g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 12 | g/10 min | ASTM D1238 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Rockwell Hardness (R-Scale, Injection Molded) | 108 | | ASTM D785 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength [1] (Yield, Injection Molded) | 30.3 | MPa | ASTM D638 |
| Tensile Elongation [2] (Yield, Injection Molded) | 13 | % | ASTM D638 |
| Flexural Modulus - 1% Secant [3] (Injection Molded) | 1070 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Notched Izod Impact (23°C, Injection Molded) | 80 | J/m | ASTM D256 |
| Gardner Impact (23°C, 3.20 mm, Injection Molded) | 19.2 | J | ASTM D2794 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded) | 90.0 | °C | ASTM D648 |
| Optical | Nominal Value | Unit | Test Method |
| Haze (Injection Molded) | 15 | % | FTTC 5606 |
| NOTE | | | |
| 1. | 50 mm/min | | |
| 2. | 50 mm/min | | |
| 3. | 1.3 mm/min | | |



## Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China