# Formolene® 3435E

Tuesday, November 5, 2019

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

## General Information

**Product Description**

Formolene® 3435E is a high melt flow random copolymer with fast cycle time and easy mold release. It is designed for injection molding including thin wall applications requiring a higher level of impact resistance. Its clarity and low yellow index makes it an excellent choice for 'see-through' house wares and rigid packaging.

Formolene® 3435E 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 | • Fast Molding Cycle<br>• Good Clarity | • Good Mold Release<br>• High Flow | • High Impact Resistance |
| Uses | • Containers<br>• Household Goods | • Transparent Parts<br>• Vials | |
| Agency Ratings | • EC 1907/2006 (REACH) | • FDA 21 CFR 177.1520 | |
| Processing Method | • Injection Molding | | |

## ASTM & ISO Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.900 | g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (230°C/2.16 kg) | 35 | g/10 min | ASTM D1238 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength [2] (Yield, Injection Molded) | 3770 | psi | ASTM D638 |
| Tensile Elongation [2] (Yield, Injection Molded) | 16 | % | ASTM D638 |
| Flexural Modulus - 1% Secant [3] (Injection Molded) | 130000 | psi | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (73°F, Injection Molded) | 1.5 | ft·lb/in | ASTM D256A |
| Gardner Impact (73°F, Injection Molded) | 221 | in·lb | ASTM D5420 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Rockwell Hardness (R-Scale, Injection Molded) | 100 | | ASTM D785 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load | | | ASTM D648 |
| 66 psi, Unannealed, Injection Molded | 160 | °F | |
| **Optical** | **Nominal Value** | **Unit** | **Test Method** |
| Haze (Injection Molded) | 10.0 | % | Internal Method |

### Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 2.0 in/min

[3] 0.051 in/min