# Formolene® 4140T

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

Tuesday, November 5, 2019

### General Information

**Product Description**

Formolene® 4140T is a high melt flow homopolymer designed for injection and compounding usage requiring very high isotacticity.

Its high crystalinity with added nucleation provides high flexural modulus along with optimal properties of tensile strength and elongation.

These characteristics make it an excellent choice for applications in automotive, appliance and compounding markets.

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • North America | | |
| Features | • Food Contact Acceptable<br>• Good Optical Properties<br>• High Elongation | • High Isotactic<br>• High Tensile Strength<br>• Highly Crystalline | • Homopolymer<br>• Nucleated |
| Uses | • Appliances | • Automotive Applications | • Compounding |
| Agency Ratings | • EC 1907/2006 (REACH) | • FDA 21 CFR 177.1520 | |
| Forms | • Pellets | | |
| Processing Method | • Compounding | • 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) | 5950 | psi | ASTM D638 |
| Tensile Elongation [2] (Yield, Injection Molded) | 6.0 | % | ASTM D638 |
| Flexural Modulus - 1% Secant [3] (Injection Molded) | 280000 | psi | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (73°F, Injection Molded) | 0.51 | ft·lb/in | ASTM D256A |

### Notes

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

[2] 2.0 in/min

[3] 0.051 in/min