

# HP-700

## Polypropylene Homopolymer

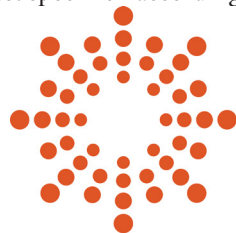
**HP700** is a Polypropylene certified prime resin developed for injection molding and compounding general purpose applications. **HP700** offers excellent high melt flow and easy processability. **HP700** processing temperature is 220° to 240°C with mold at 20° - 50°C. **HP700** complies with FDA regulation 21CFR 177.1520 (c)1.1a concerning the Polypropylene use in contact with food articles.

| PROPERTIES  | ASTM  | UNIT              | NOMINAL VALUES |
|---|-------|-------------------|----------------|
| <b>PHYSICAL</b>                                       |       |                   |                |
| Melt Flow Rate (230°C, 2.16kg)                        | D1238 | g/10 min          | 70             |
| Density   | D1505 | g/cm <sup>3</sup> | 0.904          |
| Rockwall Hardness (R-Scale)                           | D785  |                   | 104            |
| <b>MECHANICAL</b>                                     |       |                   |                |
| Flexural Modulus <sup>1</sup> (1% Secant)             | D790  | psi               | 210k           |
| Tensile Strength @ Yield <sup>2</sup>                 | D638  | psi               | 5300           |
| Notched Izod Impact                                   | D256  | ft-lb/in          | 0.30           |
| Tensile Elongation @ Yield <sup>2</sup>               | D638  | %                 | 8.5            |
| Deflection Temperature Under Load (66 psi Unannealed) | D648  | °F                | 208            |
| Vicat Softening Temperature                           | D1525 | °F                | 302            |

Typical Value of Properties not to be construed as specifications

1 - @ 0.051 in/min

2 - @ 2 in/min. Test made on injection molded Type 1 tension test specimen according to ASTM D2146



**Genesis  
Polymers**

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