

# Topilene® R601

**Polypropylene Random Copolymer**  
For High Clarity Injection Molding

## Product Description

**Topilene® R601** is a specially designed polypropylene random copolymer that features excellent transparency and high flowability. It is suitable for food containers, medical syringes, transparent containers, housewares, stationery and ISBM bottles. **Topilene® R601** is phthalate-free and it complies with FDA requirements in the code of Federal Regulations in 21 CFR 177.1520 for food contact. This product passed the European Pharmacopoeia test(EP 3.1.6) and can be used as a medical purpose.

## Characteristics

**Typical Application** Food containers / Transparent container / Housewares / Medical syringes / Stationery / ISBM bottles  
**Features** High transparency / Excellent flowability & Processability / Phthalate-Free / Non Peroxide Cracking / Excellent stiffness and impact strength balance

## Typical Properties

| Resin Properties                   | Method     | Value         | Unit               |
|------------------------------------|------------|---------------|--------------------|
| Melt Index(230°C, 2.16kg)          | ASTM D1238 | <b>12</b>     | g/10min            |
| Density                            | ASTM D792  | <b>0.90</b>   | g/cm <sup>3</sup>  |
| Tensile Strength at Yield          | ASTM D638  | <b>300</b>    | kg/cm <sup>2</sup> |
| Flexural Modulus                   | ASTM D790  | <b>11,000</b> | kg/cm <sup>2</sup> |
| Notched Izod Impact Strength(23°C) | ASTM D256  | <b>7.0</b>    | kg-cm/cm           |
| Rockwell Hardness                  | ASTM D785  | <b>90</b>     | R-Scale            |
| Heat Deflection Temperature        | ASTM D648  | <b>90</b>     | °C                 |
| Haze(2mm)                          | ISO 14782  | <b>20</b>     | %                  |

The values listed above are typical values for reference purpose only and shall not be construed as specifications. **Topilene®** is a registered trademark owned or used by HYOSUNG CORPORATION.

## Energy Savings

**Topilene® R601** provides improved aesthetics at significantly lower process temperatures that leads to lowered energy consumptions, shortened cycle time and improved productivity. It enables an average of 10% energy savings for production of clarified PP parts.

## Storage and Handling

This product should be stored in dry condition at temperature below 40°C and protected from UV-light. When condensation is visible or can be expected, pre-drying is recommended. (Drying condition: 80~100°C/2~4hours at air circulated condition)

## Contacts

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**Millad® NX™ 8000**  
 The New Standard In Clear Polypropylene

