

## TECHNICAL DATA SHEET

# 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.

### Characteristics

|                            |                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Typical Application</b> | Food containers / Transparent container / Housewares / Medical syringes / Stationery / ISBM bottles                                                   |
| <b>Features</b>            | 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 | 12     | g/10min  |
| Density                            | ASTM D792  | 0.90   | g/cm³    |
| Tensile Strength at Yield          | ASTM D638  | 300    | kg/cm²   |
| Flexural Modulus                   | ASTM D790  | 11,000 | kg/cm²   |
| Notched Izod Impact Strength(23°C) | ASTM D256  | 7.0    | kg-cm/cm |
| Rockwell Hardness                  | ASTM D785  | 90     | R-Scale  |
| Heat Deflection Temperature        | ASTM D648  | 90     | °C       |
| Haze(2mm)                          | ISO 14782  | 20     | %        |

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)

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



### Contacts

|                    |                                                                                                                                |
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