

Topilene® R701G**Polypropylene Random Copolymer**
For Medical Devices**Product Description**

Topilene® R701G is a specially designed polypropylene random copolymer that features excellent transparency and high flowability. It is suitable for medical items which are gamma-ray sterilized. **Topilene® R701G** is phthalate-free and it complies with FDA requirements in the code of Federal Regulations in 21 CFR 177.1520 for food contact.

Characteristics

Typical Application	Gamma-ray sterilized medical devices
Features	High transparency / Excellent flowability & Processability / Phthalate-Free / Non Peroxide Cracking / Excellent stiffness and impact strength balance / Gamma-ray resistance

Typical Properties

Resin Properties	Method	Value	Unit
Melt Index(230°C, 2.16kg)	ASTM D1238	20	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	6.5	kg-cm/cm
Rockwell Hardness	ASTM D785	90	R-Scale
Heat Deflection Temperature	ASTM D648	90	°C
Haze(2mm)	ISO 14782	25	%

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 CHEMICAL CORPORATION.

Energy Savings

Topilene® R701G 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**

Head Office 235, Banpo-daero, Seocho-gu, Seoul, Korea 06578
Tel: +82-2-2146-5451~7 Fax: +82-2-2146-5428

HYOSUNG CHEMICAL