

Topilene® R701

Polypropylene Random Copolymer
For High Clarity Injection Molding

Product Description

Topilene® R701 is a specially designed polypropylene random copolymer that features excellent transparency and high flowability. It is suitable for food containers, medical syringes, transparent containers and housewares, stationery and TWIM parts. **Topilene® R701** 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 US Pharmacopoeia test(USP class VI) as well as 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 / TWIM(Thin Wall Injection Molding) parts
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)	ISO 1133	20	g/10min
Density	ISO 1183	900	kg/m³
Tensile Strength at Yield	ISO 527-1	26	MPa
Flexural Modulus	ISO 178	880	MPa
Notched Izod Impact Strength(23°C)	ISO 180	6	kJ/m²
Heat Deflection Temperature	ISO 75-1	85	°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® R701 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



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