

Topilene® R1001

Polypropylene Random Copolymer
For High Clarity Injection Molding

Product Description

Topilene® R1001 is a specially designed polypropylene random copolymer that features excellent transparency and high flowability. It is suitable for food containers, transparent containers, housewares, stationery, TWIM parts and big size articles. **Topilene® R1001** 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	Food containers / Transparent container / Housewares / Stationery / TWIM(Thin Wall Injection Molding) parts / Big size articles
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	65	g/10min
Density	ISO 1183	900	kg/m³
Tensile Strength at Yield	ISO 527-1	26	MPa
Flexural Modulus	ISO 178	850	MPa
Notched Charpy Impact Strength(23°C)	ISO 179/1eA	5	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® R1001 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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