

TECHNICAL DATA SHEET

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 product.

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)	ASTM D1238	65	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	4.5	kg-cm/cm
Rockwell Hardness	ASTM D785	85	R-Scale
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 CHEMICAL 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)



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