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. This product passed 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 / ISBM bottles
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℃, 2.16kg)	ASTM D1238	**12**	g/10min
Density	ASTM D792	**0.90**	g/㎤
Tensile Strength at Yield	ASTM D638	**300**	kg/㎠
Flexural Modulus	ASTM D790	**11,000**	kg/㎠
Notched Izod Impact Strength(23℃)	ASTM D256	**7.0**	kg·cm/cm
Rockwell Hardness	ASTM D785	**90**	R-Scale
Heat Deflection Temperature	ASTM D648	**90**	℃
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℃/2~4hours at air circulated condition)