



# PP 671K

PP Random copolymer for Injection Molding

## Product Description

PP 671K is a controlled rheology grade with narrow molecular weight distribution intended specifically for producing injection molded articles with high clarity & with good flow properties. It has better impact properties than homo PP counterparts.

PP 671K has following features:

- Consistent processability
- Good stiffness
- Excellent clarity
- Low thickness
- Easy to flow

## Typical Applications

PP 671K can be used mainly for clear housewares and thin wall packaging.

## Typical data

| Properties                                  | Unit              | Value <sup>(1)</sup> | ASTM Method |
|---|-------------------|----------------------|-------------|
| <b>Resin Properties</b>                     |                   |                      |             |
| Melt Flow Rate @ 230°C & 2.16 kg load       | g/10 min.         | 44                   | D 1238      |
| Density @ 23°C                              | kg/m <sup>3</sup> | 905                  | D 792       |
| <b>Mechanical Properties <sup>(2)</sup></b> |                   |                      |             |
| Tensile Strength @ Yield                    | MPa               | 28                   | D 638       |
| Tensile Elongation @ Yield                  | %                 | 13                   | D 638       |
| Flexural Modulus (1% Secant)                | MPa               | 1100                 | D 790A      |
| Notched Izod Impact Strength @ 23°C         | J/m               | 57                   | D 256       |
| Rockwell Hardness, R-Scale                  | -                 | 104                  | D 785       |
| <b>Thermal Properties<sup>(2)</sup></b>     |                   |                      |             |
| Vicat Softening Point                       | °C                | 128                  | D 1525B     |
| Heat Deflection Temperature @ 455 KPa       | °C                | 75                   | D 648       |

(1) Typical values; not to be construed as specification limits.

(2) Based on injection molded specimens.

## Processing Conditions

Barrel temperature range: 210 - 240°C

Mold Shrinkage: 1 - 2% depending on wall thickness and processing conditions

Mold Temperature: Normally in the range of 30 - 40°C

## Food Regulation

PP 671K is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

## **Storage and Handling**

PP resin should be stored to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PP resin within 6 months after delivery.

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