



# QR6731K (Provisional Data Sheet) PP Random co-polymer for Injection Molding

## Product Description

QR6731K is specially developed for producing injection molded & ISBM articles with very high clarity at low processing temperatures and also has better impact properties than homo PP counterparts. This grade contains advance clarifier & anti-static agent.

QR6731K has following features:

- Consistent processability
- Good stiffness
- Exceptional clarity
- Lower energy consumption & less cycle time due to low processing temperatures

## Typical Applications

QR6731K can be used for clear houseware items ,caps & closures, food containers, bottles (ISBM), lids and CD-boxes .

## 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.	25	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	%	12	D 638
Flexural Modulus (1% Secant)	MPa	1050	D 790A
Notched Izod Impact Strength @ 23°C	J/m	65	D 256
Rockwell Hardness, R-Scale	-	94	D 785
<b>Thermal Properties<sup>(2)</sup></b>			
Vicat Softening Point	°C	127	D 1525B
Heat Deflection Temperature @ 455 KPa	°C	83	D 648

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

(2) Based on injection molded specimens.

## Processing Conditions

Barrel temperature range: 190 – 220 °C.

Mold Shrinkage: 1.2 - 2.0 % depending on wall thickness and processing conditions.

Mold Temperature: Normally 15 - 40°C, up to 65°C for thick parts.

## Food Regulation

QR6731K is suitable for food contact application. Detailed information is provided in the relevant Material Safety Data Sheet 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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