



# QR6711K (Provisional Data Sheet)

PP Random copolymer for Injection Molding

## Product Description

QR6711K is a controlled Rheology grade with narrow molecular weight distribution intended specifically for producing injection molded articles with high clarity, good flow properties & better impact properties than homo PP counterparts. This grade contains advance clarifier & anti-static agent.

QR6711K has following features:

- Consistent processability
- Good stiffness
- Exceptional clarity
- Low thickness
- Low warpage
- Easy to flow
- Better cycle time comparing to normal random grades
- Less energy consumption

## Typical Applications

QR6711K can be used mainly for clear thin wall containers & boxes, housewares, caps & closures and lids.

## 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.	45	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	1150	D 790A
Notched Izod Impact Strength @ 23°C	J/m	56	D 256
Rockwell Hardness, R-Scale	-	85	D 785
<b>Thermal Properties<sup>(2)</sup></b>			
Vicat Softening Point	°C	124	D 1525B
Heat Deflection Temperature @ 455 KPa	°C	71	D 648

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

(2) Based on injection molded specimens.

## Processing Conditions

Barrel temperature range: 185 – 225 °C

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

Mold Temperature: Normally in the range of 25 - 40°C

## Food Regulation

QR6711K 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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