

# SABIC® PP QR6701K

POLYPROPYLENE RANDOM COPOLYMER

## DESCRIPTION

SABIC® PP QR6701K is specially developed for producing injection molded & ISBM articles with very high clarity at low processing temperatures. This grade contains advanced clarifier and anti-static agent.  
SABIC® PP QR6701K has the following features: Consistent processability; Good stiffness; Excellent clarity; Lower energy consumption and less cycle time due to low processing temperatures.

## TYPICAL APPLICATIONS

SABIC® PP QR6701K can be used for clear housewares & packaging items, appliances, caps & closures, lids and bottles (ISBM).

## TYPICAL PROPERTY VALUES

Revision 20210811

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES <sup>(1)</sup></b>			
<b>Melt Flow Rate (MFR)</b>			
at 230°C and 2.16kg	10	g/10 min	ASTM D1238
<b>Density</b>			
at 23°C	905	kg/m <sup>3</sup>	ASTM D792
<b>MECHANICAL PROPERTIES <sup>(2)</sup></b>			
<b>Tensile Properties</b>			
Strength @ Yield	28	MPa	ASTM D638
Elongation @ Yield	12	%	ASTM D638
Flexural Modulus (1% Secant) <sup>(2)</sup>	1050	MPa	ASTM D790 A
<b>Izod Impact Strength</b>			
notched, at 23°C	85	J/m	ASTM D256
Rockwell Hardness, R-Scale	94	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
Vicat Softening Temperature	128	°C	ASTM D1525
<b>Heat deflection temperature</b>			
at 455kPa	83	°C	ASTM D648

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

(2) Based on injection molded specimens

## PROCESSING CONDITIONS

Typical processing conditions for QR6701K are:

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.

## STORAGE AND HANDLING

Polypropylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not 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.

© 2023 Copyright by SABIC. All rights reserved

CHEMISTRY THAT MATTERS™



## DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.