

## SABIC® PP QR681K

### PP random copolymer QRYSTAL for Blow moulding

#### Description:

SABIC® PP QR681K is a new highly transparent random copolymer grade in the blow moulding product range. Impact, transparency, stiffness are well balanced and give you the opportunity to make weight optimized blow moulding products. This grade combines improved aesthetics of the finished articles with low temperature processability. Part aesthetics are not affected by the lower temperatures, providing for a broader operating window. High transparency, contact clarity and gloss will produce appealing blow moulded bottles. These properties, combined with a high heat deflection temperature, result in a wide variety of applications where the SABIC® PP QR681K can be used.

#### Application:

SABIC® PP QR681K is used for various blow moulding processes like Extrusion Blow Moulding and Injection (Stretch) Blow Moulding. SABIC® PP QR681K applications range from household to personal care products, but the material is also very suited for food packaging where a high heat distortion could be required.

#### Health, Safety and Food Contact regulations:

Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site <http://www.SABIC-europe.com>

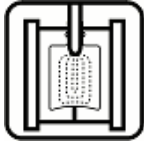
The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

#### Typical values

Revision 20150303

Properties	Unit (Si)	Values	Test methods
<b>Polymer properties</b>			
<b>Melt flow rate (MFR)</b> at 230 °C and 2.16 kg	g/10 min	<b>2.2</b>	ASTM D 1238
<b>Density</b>	kg/m <sup>3</sup>	<b>905</b>	ASTM D 792
<b>Formulation</b>			
<b>Clarified</b>	-	<b>Yes</b>	-
<b>Mechanical properties</b>			
<b>Tensile test</b>			
stress at yield <sup>1)</sup>	MPa	<b>27</b>	ASTM D 638
strain at yield <sup>1)</sup>	%	<b>14</b>	
secant modulus at 1% elongation <sup>2)</sup>	MPa	<b>1050</b>	
<b>Izod impact notched</b> at 23 °C	J/m	<b>200</b>	ASTM D 256A
<b>Optical properties</b>			
<b>Haze</b> <sup>3)</sup>	%	<b>8</b>	ASTM D 1003
<b>Thermal properties</b>			
<b>Heat deflection temperature</b> at 0.45 MPa (HDT/B)	°C	<b>70</b>	ASTM D 648

1) Speed of testing: 50 mm/min  
 2) Speed of testing: 1 mm/min  
 3) Thickness of test specimen: 1mm



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**Quality:**

SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO9001.

**Storage and handling:**

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and /or high humidity as this could well speed up alteration and consequently loss of quality of the material and /or its packaging. Keep material completely dry for good processing.

**Disclaimer.** The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

SABIC as referred to herein means any legal entity belonging to the group of companies headed by SABIC Europe B.V.

