

# SABIC® PP QR681K

PP RANDOM COPOLYMER QCRYSTAL

## 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.

## TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 230 °C and 2.16 kg	2.2	dg/min	ISO 1133
<b>Density</b>	905	kg/m³	ASTM D1505
<b>FORMULATION</b>			
<b>Clarified</b>	☑	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
stress at yield <sup>(1)</sup>	26	MPa	ISO 527-2 1A
tensile modulus <sup>(2)</sup>	950	MPa	ISO 527-2 1A
strain at yield	13	%	ISO 527-2 1A
<b>Izod impact notched</b>			
at 23 °C	8	kJ/m²	ISO 180/1A
<b>Charpy Impact Strength Notched</b>			
at 23 °C	8	kJ/m²	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
<b>Heat deflection temperature <sup>(3)</sup></b>			
at 0.45 MPa (HDT/B)	65	°C	ISO 75/B

(1) Speed of testing: 50 mm/min

(2) Speed of testing: 1 mm/min

(3) Flat wise ( testbar 80\*10\*4mm)

