



# SABIC<sup>®</sup> PP QR674K

PP RANDOM COPOLYMER QRYSTAL

## DESCRIPTION

SABIC<sup>®</sup> PP QR674K is a high melt flow index random copolymer with excellent transparency and good antistatic properties. This grade combines improved aesthetics of the finished articles with low temperature processability and a very good organoleptic performance. Part aesthetics are not affected by the lower processing temperatures, providing for a broader operating window. The SABIC<sup>®</sup> PP QR674K presents excellent flow behaviour, easy demoulding and good stiffness to impact ratio.

Application: SABIC<sup>®</sup> PP QR674K is mainly used in injection moulding processes. The SABIC<sup>®</sup> PP QR674K aims at transparent applications where higher MFI's with good flow are required. Its intended applications include injection moulded housewares, office & home storage boxes, thin wall packaging, lids and caps & closures.

## TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 230 °C and 2.16 kg	40	dg/min	ISO 1133
<b>Density</b>	905	kg/m <sup>3</sup>	ASTM D1505
<b>FORMULATION</b>			
<b>Anti static agent</b>	☑	-	-
<b>Clarified</b>	☑	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
tensile modulus <sup>(1)</sup>	1150	MPa	ISO 527-2 1A
strain at yield	13	%	ISO 527-2 1A
stress at yield <sup>(2)</sup>	29	MPa	ISO 527-2 1A
<b>Izod impact notched</b>			
at 23 °C	4.0	kJ/m <sup>2</sup>	ISO 180/1A
at 0 °C	2.0	kJ/m <sup>2</sup>	ISO 180/1A
<b>Charpy Impact Strength Notched</b>			
at 0 °C	2.0	kJ/m <sup>2</sup>	ISO 179/1eA
at 23 °C	4.5	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Hardness Shore D</b>	64	-	ISO 868
<b>THERMAL PROPERTIES</b>			
<b>Heat deflection temperature <sup>(3)</sup></b>			
at 1.80 MPa (HDT/A)	52	°C	ISO 75
at 0.45 MPa (HDT/B)	75	°C	ISO 75



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Vicat Softening Temperature <sup>(4)</sup>			
at 50 N (VST/B)	70	°C	ISO 306
at 10 N (VST/A)	125	°C	ISO 306

(1) Speed of testing: 1 mm/min  
(2) Speed of testing: 50 mm/min  
(3) Flat wise ( testbar 80\*10\*4mm)  
(4) Temperature rate: 120°C/h