

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.

Health, Safety and Food Contact regulations: Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site <http://www.SABIC.com> The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

TYPICAL PROPERTY VALUES

Revision 20191230

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

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.

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CHEMISTRY THAT MATTERS™



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