



# SABIC® PP QR673K

PP RANDOM COPOLYMER QRYSTAL

## DESCRIPTION

SABIC® PP QR673K is a highly transparent random copolymer with good antistatic properties. 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. The SABIC® PP QR673K results in excellent demoulding characteristics and has a good stiffness to impact ratio. Application: SABIC® PP QR673K is mainly used in injection moulding processes. The SABIC® PP QR673K aims at transparent applications ranging from injection moulded housewares, office & home storage boxes, lids to caps & closures.

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.

This grade material is UL registered under File E111275 ([www.ul.com](http://www.ul.com))  
 IMDS 80775790

## TYPICAL PROPERTY VALUES

Revision 20210227

| PROPERTIES  | TYPICAL VALUES                      | UNITS  | TEST METHODS |
|---|-------------------------------------|--------|--------------|
| <b>POLYMER PROPERTIES</b>                         |                                     |        |              |
| <b>Melt Flow Rate (MFR)</b>                       |                                     |        |              |
| at 230 °C and 2.16 kg                             | 25                                  | dg/min | ISO 1133     |
| <b>Density</b>                                    | 905                                 | kg/m³  | ASTM D 1505  |
| <b>FORMULATION</b>                                |                                     |        |              |
| <b>Anti static agent</b>                          | <input checked="" type="checkbox"/> | -      | -            |
| <b>Clarified</b>                                  | <input checked="" type="checkbox"/> | -      | -            |
| <b>MECHANICAL PROPERTIES</b>                      |                                     |        |              |
| <b>Tensile test</b>                               |                                     |        |              |
| stress at yield <sup>(1)</sup>                    | 25                                  | MPa    | ISO 527-2 1A |
| tensile modulus <sup>(2)</sup>                    | 1050                                | MPa    | ISO 527-2 1A |
| strain at yield                                   | 13                                  | %      | ISO 527-2 1A |
| <b>Izod impact notched</b>                        |                                     |        |              |
| at 0 °C   | 2.0                                 | kJ/m²  | ISO 180/1A   |
| at 23 °C  | 5.0                                 | kJ/m²  | ISO 180/1A   |
| <b>Charpy Impact Strength Notched</b>             |                                     |        |              |
| at 23 °C  | 6.0                                 | kJ/m²  | ISO 179/1eA  |
| at 0 °C   | 2.0                                 | kJ/m²  | ISO 179/1eA  |
| <b>Hardness Shore D</b>                           | 62                                  | -      | ISO 868      |
| <b>THERMAL PROPERTIES</b>                         |                                     |        |              |
| <b>Heat deflection temperature <sup>(3)</sup></b> |                                     |        |              |
| at 0.45 MPa (HDT/B)                               | 75                                  | °C     | ISO 75       |
| at 1.80 MPa (HDT/A)                               | 50                                  | °C     | ISO 75       |
| <b>Vicat Softening Temperature <sup>(4)</sup></b> |                                     |        |              |
| at 10 N (VST/A)                                   | 125                                 | °C     | ISO 306      |
| at 50 N (VST/B)                                   | 68                                  | °C     | ISO 306      |



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

### 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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