

SABIC® PP QR673 1K

POLYPROPYLENE RANDOM COPOLYMER

DESCRIPTION

SABIC® PP QR673 1K is specially developed for producing injection molded & ISBM articles with very high clarity at low processing temperatures. This grade contains advance clarifier and anti-static agent. SABIC® PP QR673 1K has following features: Consistent processability; Good stiffness; Exceptional clarity; Lower energy consumption and less cycle time due to low processing temperatures.

TYPICAL APPLICATIONS

SABIC® PP QR673 1K can be used for clear housewares items, caps & closures, food containers, bottles (ISBM), lids and CD boxes.

TYPICAL PROPERTY VALUES

Revision 20220721

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
at 230 °C and 2.16kg	25	g/10 min	ASTM D1238
Density			
at 23°C	905	kg/m ³	ASTM D790
MECHANICAL PROPERTIES ⁽²⁾			
Tensile Properties			
Strength @ Yield	28	MPa	ASTM D638
Elongation @ Yield	12	%	ASTM D638
Flexural Modulus (1% Secant) ⁽²⁾	1050	MPa	ASTM D790 A
Izod Impact Strength			
notched, at 23°C	65	J/m	ASTM D256
Rockwell Hardness, R-Scale	94	-	ASTM D785
THERMAL PROPERTIES			
Vicat Softening Temperature	127	°C	ASTM D1525
Heat deflection temperature			
at 455kPa	83	°C	ASTM D648

(1) Typical values, not to be construed as specific limits

(2) Based on injection molded specimens

PROCESSING CONDITIONS

Typical processing conditions for QR673 1K are:

Barrel temperature range: 190 - 220°C

Mold Shrinkage: 1.2 - 2.0% depending on wall thickness and processing conditions.

Mold Temperature: Normally 15 - 40°C, up to 65°C for thick parts.

STORAGE AND HANDLING

Polypropylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PP resin within 6 months after delivery.

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CHEMISTRY THAT MATTERS™

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