SABIC® PP QR6711K

POLYPROPYLENE RANDOM COPOLYMER FOR INJECTION MOLDING

DESCRIPTION

SABIC® PP QR6711K is a PP random grade with narrow molecular weight distribution intended specifically for producing injection molded articles with high clarity. This grade contains advanced clarifier & anti-static agent.
SABIC® PP QR6711K has the following features: Consistent processability; Good stiffness; Exceptional clarity; Low thickness; Low warpage; Easy to flow; Better cycle time comparing to normal PP random copolymer grades; Less energy consumption.

TYPICAL APPLICATIONS

SABIC® QR 6711K can be used for clear thin-walled containers & boxes, housewares, caps & closures and lids.

TYPICAL PROPERTY VALUES

Revision 20230911

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES [1]			
Melt Flow Rate (MFR)			
at 230 °C and 2.16kg	45	g/10 min	ASTM D1238
Density			
at 23 °C	905	kg/m³	ASTM D792
MECHANICAL PROPERTIES [2]			
Tensile Properties			
Strength @ Yield	28	MPa	ASTM D638
Elongation @ Yield	13	%	ASTM D638
Flexural Modulus (1% Secant) [2]	1150	MPa	ASTM D790 A
Izod Impact Strength			
notched, at 23 °C	56	J/m	ASTM D256
Rockwell Hardness, R-Scale	85	-	ASTM D785
THERMAL PROPERTIES			
Vicat Softening Temperature	124	°C	ASTM D1525
Heat deflection temperature			
at 455kPa	71	°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 QR6711K are:

Barrel temperature range: 185 - 225°C.

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

Mold Temperature: Normally in the range of 25 - 40°C.

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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