

## SABIC® PP QR6771K

POLYPROPYLENE RANDOM COPOLYMER FOR INJECTION MOLDING

### DESCRIPTION

SABIC® QR6771K is a phthalate free high melt flow clarified polypropylene random copolymer grade for injection molding applications. This grade provides excellent clarity & surface gloss. It contains antistatic agent.

### TYPICAL APPLICATIONS

SABIC® QR6771K can be used for producing transparent housewares, thin wall packaging items, appliances and caps & closures.

### TYPICAL PROPERTY VALUES

Revision 20260224

| PROPERTIES                                  | TYPICAL VALUES | UNITS    | TEST METHODS |
|---------------------------------------------|----------------|----------|--------------|
| <b>POLYMER PROPERTIES <sup>(1)</sup></b>    |                |          |              |
| <b>Melt Flow Rate (MFR)</b>                 |                |          |              |
| @ 230°C & 2.16kg load                       | 70             | g/10 min | ASTM D1238   |
| <b>Density</b>                              |                |          |              |
| @ 23°C                                      | 905            | kg/m³    | ASTM D792    |
| <b>MECHANICAL PROPERTIES <sup>(2)</sup></b> |                |          |              |
| <b>Tensile Properties</b>                   |                |          |              |
| Tensile Strength @ Yield                    | 28             | MPa      | ASTM D638    |
| Tensile Elongation @ Yield                  | 12             | %        | ASTM D638    |
| Flexural Modulus (1% Secant)                | 1100           | MPa      | ASTM D790 A  |
| Notched Izod Impact Strength at 23°C        | 34             | J/m      | ASTM D256    |
| Rockwell Hardness, R-Scale                  | 94             | -        | ASTM D785    |
| <b>OPTICAL PROPERTIES</b>                   |                |          |              |
| Haze, 1 mm                                  | 10             | %        | ASTM D1003   |
| <b>THERMAL PROPERTIES</b>                   |                |          |              |
| Vicat Softening Point                       | 130            | °C       | ASTM D1525   |
| Heat Deflection Temperature at 455kPa       | 85             | °C       | ASTM D648    |

(1) Typical values; not to be construed as specification limits.

(2) Based on injection molded specimens

### PROCESSING CONDITIONS

Typical processing conditions for SABIC® QR6771K are Barrel temperature range: 200 - 250°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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