



# SABIC<sup>®</sup> PP 48MK40

POLYPROPYLENE IMPACT COPOLYMER FOR INJECTION MOLDING

## DESCRIPTION

SABIC<sup>®</sup> PP 48MK40 is specially developed for producing injection molded articles. This grade contains nucleating and antistatic agents. It has medium flow properties, good impact resistance (even at low temperature) and balanced stiffness.

## TYPICAL APPLICATIONS

SABIC<sup>®</sup> PP 48MK40 can be used for general purpose injection molding, pails and containers, housewares, furniture, crates and boxes.

## TYPICAL PROPERTY VALUES

| PROPERTIES                                  | TYPICAL VALUES | UNITS             | TEST METHODS |
|---|----------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>                   |                |                   |              |
| <b>Melt Flow Rate</b>                       |                |                   |              |
| at 230°C and 2.16kg                         | 16             | g/10 min          | ASTM D1238   |
| <b>Density</b>                              |                |                   |              |
| at 23°C                                     | 905            | kg/m <sup>3</sup> | ASTM D792    |
| <b>MECHANICAL PROPERTIES <sup>(1)</sup></b> |                |                   |              |
| <b>Tensile Properties</b>                   |                |                   |              |
| Tensile Strength @ Yield                    | 27             | MPa               | ASTM D 638   |
| Tensile Elongation @ Yield                  | 7              | %                 | ASTM D 638   |
| <b>Flexural Modulus (1% Secant)</b>         | 1500           | MPa               | ASTM D790 A  |
| <b>Izod Impact Strength</b>                 |                |                   |              |
| notched, at 23°C                            | 93             | J/m               | ASTM D256    |
| notched, at -20°C                           | 55             | J/m               | ASTM D256    |
| <b>Rockwell Hardness, R-Scale</b>           | 95             | -                 | ASTM D785    |
| <b>THERMAL PROPERTIES</b>                   |                |                   |              |
| <b>Vicat Softening Temperature</b>          | 149            | °C                | ASTM D1525   |
| <b>Heat deflection temperature</b>          |                |                   |              |
| at 455kPa                                   | 107            | °C                | ASTM D648    |

(1) Based on injection molded specimens

## PROCESSING CONDITIONS

Typical processing conditions for 48MK40 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.

## HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

SABIC<sup>®</sup> PP 48MK40 is suitable for food contact application. Detailed information is provided in relevant documents / certificates and for additional specific information please contact SABIC local representative.

DISCLAIMER: This product is not intended for and must not be used in any pharmaceutical / medical applications.