

# SABIC® PP 522K

## POLYPROPYLENE HOMOPOLYMER FOR THERMOFORMING

### DESCRIPTION

SABIC® PP 522K is formulated with an advanced nucleating agent and is specially developed for in-line and off-line thermoforming applications. SABIC® PP 522K encompasses the following features: High stiffness; Very good clarity and aesthetics; Very good dimensional stability; Easy processability and faster cycling

### TYPICAL APPLICATIONS

SABIC® PP 522K is used for the production of containers mainly for food and health drink products such as containers cups, trays and lids.

### TYPICAL PROPERTY VALUES

| PROPERTIES                                 | TYPICAL VALUES | UNITS             | TEST METHODS |
|--|----------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>                  |                |                   |              |
| Melt Flow Rate<br>at 230 °C and 2.16kg     | 3              | g/10 min          | ASTM D1238   |
| Density<br>at 23°C                         | 905            | kg/m <sup>3</sup> | ASTM D792    |
| <b>MECHANICAL PROPERTIES<sup>(1)</sup></b> |                |                   |              |
| <b>Tensile Properties</b>                  |                |                   |              |
| Strength @ Yield                           | 37             | MPa               | ASTM D 638   |
| Elongation @ Yield                         | 10             | %                 | ASTM D638    |
| Flexural Modulus (1% Secant)               | 1700           | MPa               | ASTM D790 A  |
| <b>Izod Impact Strength</b>                |                |                   |              |
| notched, at 23°C                           | 40             | J/m               | ASTM D256    |
| Rockwell Hardness, R-Scale                 | 110            | -                 | ASTM D785    |
| <b>THERMAL PROPERTIES</b>                  |                |                   |              |
| Vicat Softening Temperature                | 150            | °C                | ASTM D1525   |
| Heat deflection temperature<br>at 455kPa   | 114            | °C                | ASTM D648    |

(1) Based on injection molded specimens