

# SABIC® PP 513MK46

## POLYPROPYLENE IMPACT COPOLYMER FOR INJECTION MOLDING

### DESCRIPTION

SABIC® PP 513MK46 is specially developed for producing injection molded articles. This grade contains nucleating & antistatic agents. It has very high flow properties in combination with excellent impact / stiffness balance and excellent organoleptic properties.

SABIC® PP 513MK46 encompasses the following features:

High top load strength & down gauging potential

Very good Impact resistance

Excellent isotropy shrinkage performance (dimensional stability)

High crystallization temperature and superior flow behavior (lower cycle time)

Easy mold filing for aesthetic & large items

Clean product in combination of low / no odor & taste

### TYPICAL APPLICATIONS

SABIC® PP 513MK46 typically used in thin-walled packaging applications for both food and non-food industries; this includes packaging for frozen / chilled / ambient food, dairy products (e.g. butter, yoghurt, cream, cheese etc.). It can be also used in several applications in the housewares, appliances, toys, caps & closures and compounding.

### TYPICAL PROPERTY VALUES

| PROPERTIES                                       | TYPICAL VALUES | UNITS             | TEST METHODS |
|--|----------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>                        |                |                   |              |
| <b>Melt Flow Rate <sup>(1)</sup></b>             |                |                   |              |
| @ 230°C & 2.16 kg load <sup>(1)</sup>            | 70             | g/10 min          | ASTM D 1238  |
| <b>Density at 23°C</b>                           | 902            | kg/m <sup>3</sup> | ASTM D1505   |
| <b>MECHANICAL PROPERTIES</b>                     |                |                   |              |
| <b>Tensile Strength at Yield</b>                 | 26             | MPa               | ASTM D638    |
| <b>Tensile Elongation at Yield</b>               | 4.5            | %                 | ISO 527-1/-2 |
| <b>Flexural Modulus (1% Secant)</b>              | 1350           | MPa               | ASTM D790 A  |
| <b>Notched Izod Impact Strength at 23°C</b>      | 53             | J/m               | ASTM D256    |
| <b>Notched Izod Impact Strength at -20°C</b>     | 32             | J/m               | ASTM D256    |
| <b>Rockwell Hardness, R-Scale <sup>(2)</sup></b> | 98             | -                 | ASTM D785    |
| <b>THERMAL PROPERTIES</b>                        |                |                   |              |
| <b>Vicat Softening Point</b>                     | 149            | °C                | ASTM D1525   |
| <b>Heat Deflection Temperature at 455kPa</b>     | 111            | °C                | ASTM D648    |

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

(2) Based on injection molded specimens