



# SABIC® PP 312MK40

## PP IMPACT COPOLYMER

### DESCRIPTION

SABIC® PP 312MK40 is a high flow nucleated polypropylene impact copolymer resin typically used for injection molding applications. Molded parts made from this resin exhibit balanced impact and stiffness. It contains anti-static agent.

### TYPICAL APPLICATIONS

SABIC® PP 312MK40 can be used to produce crates, electrical appliances, thin wall and industrial products. This product is not intended for use in medical and pharmaceutical applications.

### TYPICAL PROPERTY VALUES

Revision 20220721

| PROPERTIES                                   | TYPICAL VALUES | UNITS             | TEST METHODS |
|----------------------------------------------|----------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>                    |                |                   |              |
| <b>Melt Flow Rate (MFR)</b>                  |                |                   |              |
| @ 230°C/2.16 kg                              | 39             | g/10 min          | ASTM D1238   |
| <b>Density</b>                               | 905            | kg/m <sup>3</sup> | ASTM D1505   |
| <b>MECHANICAL PROPERTIES</b>                 |                |                   |              |
| <b>Tensile Strength at Yield</b>             | 25             | MPa               | ASTM D638    |
| <b>Tensile Strength at Break</b>             | 18             | MPa               | ASTM D638    |
| <b>Flexural Modulus (1% Secant)</b>          | 1360           | MPa               | ASTM D790 A  |
| <b>Izod Impact Strength</b>                  |                |                   |              |
| Notched, 23°C                                | 9              | kJ/m <sup>2</sup> | ISO 180      |
| notched, -20°C                               | 6              | kJ/m <sup>2</sup> | ISO 180      |
| <b>Rockwell Hardness, R-Scale</b>            | 92             | -                 | ASTM D785    |
| <b>THERMAL PROPERTIES</b>                    |                |                   |              |
| <b>Vicat Softening Point</b>                 | 150            | °C                | ASTM D1525   |
| <b>Heat Deflection Temperature at 455kPa</b> | 119            | °C                | ASTM D648    |

### PROCESSING CONDITIONS

Typical Processing conditions for 312MK40 are:  
Recommended melt temperature : 190– 230 °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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