



# SABIC® PP 312MK10R

## PP IMPACT COPOLYMER

### DESCRIPTION

SABIC® PP 312MK10R is an impact copolymer polypropylene resin and is typically used for industrial and thin wall injection molding application. It has high melt flow and molded parts made from this resin typically exhibits good impact, high stiffness and good heat stability.

### TYPICAL APPLICATIONS

Crates, electrical appliances, thin wall applications and industrial applications.  
This product is not intended for use in medical and pharmaceutical applications.

### TYPICAL PROPERTY VALUES

Revision 20230511

| 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>MECHANICAL PROPERTIES</b>                 |                |                   |              |
| <b>Tensile Strength at Yield</b>             | 24             | MPa               | ASTM D638    |
| <b>Tensile Strength at Break</b>             | 16             | MPa               | ASTM D638    |
| <b>Flexural Modulus</b>                      | 1280           | MPa               | ASTM D790    |
| <b>Izod Impact Strength</b>                  |                |                   |              |
| Notched, 23°C                                | 9              | kJ/m <sup>2</sup> | ISO 180      |
| Notched, -20°C                               | 5              | kJ/m <sup>2</sup> | ISO 180      |
| <b>Rockwell Hardness, R-Scale</b>            | 86             | -                 | ASTM D785    |
| <b>THERMAL PROPERTIES</b>                    |                |                   |              |
| <b>Vicat Softening Point</b>                 | 149            | °C                | ASTM D1525   |
| <b>Heat Deflection Temperature at 455kPa</b> | 118            | °C                | ASTM D648    |

### PROCESSING CONDITIONS

Typical Processing conditions for 312MK10R 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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