

## SABIC® PP 312MK10

PP IMPACT COPOLYMER

### DESCRIPTION

SABIC® PP 312MK10 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.

### TYPICAL APPLICATIONS

SABIC® PP 312MK10 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 20230421

| PROPERTIES                                                | TYPICAL VALUES | UNITS    | TEST METHODS |
|-----------------------------------------------------------|----------------|----------|--------------|
| <strong>POLYMER PROPERTIES</strong>                       |                |          |              |
| <strong>Melt Flow Rate (MFR)</strong>                     |                |          |              |
| @ 230°C/2.16 kg                                           | 39             | g/10 min | ASTM D1238   |
| Density                                                   | 905            | kg/m³    | ASTM D1505   |
| <strong>MECHANICAL PROPERTIES <sup>(1) (2)</sup></strong> |                |          |              |
| Tensile Strength at Yield                                 | 24             | MPa      | ASTM D638    |
| Tensile Strength at Break                                 | 16             | MPa      | ASTM D638    |
| Flexural Modulus                                          | 1280           | MPa      | ASTM D790    |
| <strong>Izod Impact Strength</strong>                     |                |          |              |
| Notched, 23°C                                             | 9              | kJ/m²    | ISO 180      |
| Notched, -20°C                                            | 5              | kJ/m²    | ISO 180      |
| Rockwell Hardness, R-Scale                                | 86             | -        | ASTM D785    |
| <strong>THERMAL PROPERTIES</strong>                       |                |          |              |
| Vicat Softening Point                                     | 149            | °C       | ASTM D1525   |
| Heat Deflection Temperature at 455kPa                     | 118            | °C       | ASTM D648    |

(1) Typical values only, not to be construed as specification limits

(2) Test specimen preparation method : Pursuant to ASTM D4101

### PROCESSING CONDITIONS

Typical Processing conditions for 312MK10 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.

© 2024 Copyright by SABIC. All rights reserved

CHEMISTRY THAT MATTERS™



### DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.



petromall.net



info@petromall.ps



+970 599 2020 64



Hebron - Palestine

فلسطين - الخليل

+972 2 2233840

