

# SABIC® PP 57MNK10

## POLYPROPYLENE IMPACT COPOLYMER FOR INJECTION MOLDING

### DESCRIPTION

SABIC® PP 57MNK10 is a controlled rheology PP grade and specially developed for producing injection molded articles. This grade has excellent impact resistance (even at low temperature) and balanced stiffness.

### TYPICAL APPLICATIONS

SABIC® PP 57MNK10 can be used for furniture, housewares, pails and containers, toys, crates and boxes.

### TYPICAL PROPERTY VALUES

Revision 20170531

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 230°C and 2.16kg	12	g/10 min	ASTM D1238
<b>Density</b>			
at 23°C	905	kg/m <sup>3</sup>	ASTM D792
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile Properties <sup>(1)</sup></b>			
stress at yield	24	MPa	ASTM D638
strain at yield	4	%	ASTM D638
<b>Flexural Modulus (1% Secant) <sup>(1)</sup></b>	1150	MPa	ASTM D790 A
<b>Flexural Modulus (1% Secant) <sup>(1)</sup></b>	1250	MPa	ASTM D790 B
<b>Izod Impact Strength <sup>(1)</sup></b>			
notched, at 23°C	115	J/m	ASTM D256
notched, at -20°C	63	J/m	ASTM D256
<b>Rockwell Hardness, R-Scale <sup>(1)</sup></b>	80	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>	148	°C	ASTM D1525
<b>Heat Deflection Temperature</b>			
at 455kPa	90	°C	ASTM D648

(1) Based on injection molded specimens

### PROCESSING CONDITIONS

Typical processing conditions for 57MNK10 are:

Barrel temperature range: 200 - 250°C.

Mold shrinkage: 1.2 - 2.0% depending on wall thickness and processing conditions.

Mold temperature: normally 15 - 40°C, up to 65°C for thick parts.

## HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

SABIC® PP 57MNK10 is suitable for food contact application. Detailed information is provided in relevant documents / certificates and for additional specific information please contact SABIC local representative.

DISCLAIMER: This product is not intended for and must not be used in any pharmaceutical / medical applications.

## 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.

## DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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