

# 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 20201214

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES <sup>(1)</sup></b>			
<b>Melt Flow Rate (MFR)</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 <sup>(2)</sup></b>			
<b>Tensile Properties</b>			
Strength @ Yield	24	MPa	ASTM D638
Elongation @ Yield	4	%	ASTM D638
Flexural Modulus (1% Secant)	1150	MPa	ASTM D790 A
<b>Izod Impact Strength</b>			
notched, at 23°C	115	J/m	ASTM D256
notched, at -20°C	63	J/m	ASTM D256
Rockwell Hardness, R-Scale <sup>(1)</sup>	80	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
Vicat Softening Temperature	148	°C	ASTM D1525
<b>Heat deflection temperature</b>			
at 455kPa	90	°C	ASTM D648

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

(2) 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.

## 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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