

# SABIC® PP 48MK40

POLYPROPYLENE IMPACT COPOLYMER FOR INJECTION MOLDING

## DESCRIPTION

SABIC® PP 48MK40 is specially developed for producing injection molded articles. This grade contains nucleating and antistatic agents. It has medium flow properties, good impact resistance (even at low temperature) and balanced stiffness.

## TYPICAL APPLICATIONS

SABIC® PP 48MK40 can be used for general purpose injection molding, pails and containers, housewares, furniture, crates and boxes.

## TYPICAL PROPERTY VALUES

Revision 20210506

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	16	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>			
Tensile Strength @ Yield	27	MPa	ASTM D638
Tensile Elongation @ Yield	7	%	ASTM D638
<b>Flexural Modulus (1% Secant)</b>	1400	MPa	ASTM D790 A
<b>Izod Impact Strength</b>			
notched, at 23°C	93	J/m	ASTM D256
notched, at -20°C	55	J/m	ASTM D256
<b>Rockwell Hardness, R-Scale</b>	95	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>	149	°C	ASTM D1525
<b>Heat deflection temperature</b>			
at 455kPa	107	°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 48MK40 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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