

# SABIC® PP 412MK49

POLYPROPYLENE IMPACT COPOLYMER FOR INJECTION MOLDING

## DESCRIPTION

SABIC® PP 412MK49 is specially developed for producing injection molded articles. This grade contains nucleating and antistatic agents. It has high flow properties and excellent impact – stiffness balance.

## TYPICAL APPLICATIONS

SABIC® PP 412MK49 can be used for housewares, toys, appliances and thin-walled containers (food and non-food).

## TYPICAL PROPERTY VALUES

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	45	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	28	MPa	ASTM D638
Elongation @ Yield	4	%	ASTM D638
Flexural Modulus (1% Secant)	1450	MPa	ASTM D790 A
<b>Izod Impact Strength</b>			
notched, at 23°C	55	J/m	ASTM D256
notched, at -20°C	33	J/m	ASTM D256
Rockwell Hardness, R-Scale	100	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
Vicat Softening Temperature	150	°C	ASTM D1525
<b>Heat deflection temperature</b>			
at 455kPa	112	°C	ASTM D648

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

(2) Based on injection molded specimens

