



# SABIC<sup>®</sup> PP 412MK49

POLYPROPYLENE IMPACT COPOLYMER FOR INJECTION MOLDING

## DESCRIPTION

SABIC<sup>®</sup> 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<sup>®</sup> 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</b>			
<b>Melt Flow Rate</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>(1)</sup></b>			
<b>Tensile Properties</b>			
Strength @ Yield	28	MPa	ASTM D 638
Elongation @ Yield	4	%	ASTM D 638
<b>Flexural Modulus (1% Secant)</b>	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
<b>Rockwell Hardness, R-Scale</b>	100	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>	150	°C	ASTM D1525
<b>Heat deflection temperature</b>			
at 455kPa	112	°C	ASTM D648

(1) Based on injection molded specimens

## PROCESSING CONDITIONS

Barrel temperature range: 200 - 245°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.