



# SABIC<sup>®</sup> PP 511MK46

POLYPROPYLENE IMPACT COPOLYMER FOR INJECTION MOLDING

## DESCRIPTION

SABIC<sup>®</sup> PP 511MK46 is specially developed for producing injection molded articles. This grade contains nucleating & antistatic agents. It has medium-high flow properties in combination with excellent impact / stiffness balance and excellent organoleptic properties.

SABIC<sup>®</sup> PP 511MK46 encompasses the following features: excellent top load strength & down gauging potential; excellent impact resistance; excellent isotropic shrinkage performance (dimensional stability); high crystallization temperature and excellent flow behavior (lower cycle time); clean product in combination of low / no odor & taste.

## TYPICAL APPLICATIONS

SABIC<sup>®</sup> PP 511MK46 can be used for appliances, housewares, pails & containers and thin wall containers.

## TYPICAL PROPERTY VALUES

Revision 20181012

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 230°C and 2.16kg	30	g/10 min	ASTM D1238
<b>Density</b>			
at 23°C	903	kg/m <sup>3</sup>	ASTM D792
<b>MECHANICAL PROPERTIES <sup>(1)</sup></b>			
<b>Tensile Strength at Yield</b>	26	MPa	ASTM D638
<b>Tensile Elongation at Yield</b>	5	%	ASTM D638
<b>Flexural Modulus (1% Secant)</b>	1160	MPa	ASTM D790 A
<b>Flexural Modulus (1% Secant)</b>	1310	MPa	ASTM D790 B
<b>Izod Impact Strength</b>			
notched, at 23°C	90	J/m	ASTM D256
notched, at -20°C	50	J/m	ASTM D256
<b>Rockwell Hardness, R-Scale</b>	98	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>	149	°C	ASTM D1525
<b>Heat deflection temperature</b>			
at 455kPa	110	°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.



## HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

SABIC® PP 511MK46 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.

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