



SABIC[®] PP 511MK46

POLYPROPYLENE IMPACT COPOLYMER FOR INJECTION MOLDING

DESCRIPTION

SABIC[®] 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[®] 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[®] PP 511MK46 can be used for appliances, housewares, pails & containers and thin wall containers.

TYPICAL PROPERTY VALUES

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