



PP 411MK49X (Provisional Data sheet) PP Impactco-polymer for Injection Molding

Product Description

PP 411MK49X is specially developed for producing injection molded articles. This grade contains nucleating & antistatic agents. It has medium flow properties, good impact resistance (even at low temperature) and good stiffness.

Typical Applications

PP 411MK49X can be used for Housewares, Toys, Appliances and thin wall containers (Food and non-food).

Typical data

Properties	Unit	Value ⁽¹⁾	ASTM Method
Resin Properties			
Melt Flow Rate @ 230°C & 2.16 kg load	g/10 min.	30	D1238
Density @ 23°C	kg/m ³	905	D792
Mechanical Properties⁽²⁾			
Tensile Strength @ Yield	MPa	28	D638
Tensile Elongation @ Yield	%	4	D638
Flexural Modulus (1% Secant)	MPa	1400	D790A
		1600	D790B
Notched Izod Impact Strength @ 23°C	J/m	55	D256
Notched Izod Impact Strength @ -20 °C	J/m	33	D256
Rockwell Hardness, R-Scale	-	100	D 785
Thermal Properties⁽²⁾			
Vicat Softening Point	°C	150	D1525A
Heat Deflection Temperature @ 455 KPa	°C	110	D648

(1) Typical values; not to be construed as specification limits.

(2) Based on injection molded specimens.

Processing Conditions

Barrel temperature range: 200 - 245°C.

Mold Shrinkage: 1.2 - 2.5% depending on wall thickness and processing conditions.

Mold Temperature: Normally 15 - 40°C, upto 65°C for thick parts.

Food Regulation

PP 411MK49X is suitable for food contact application. For the certificate please contact SABIC local representative.

Storage and Handling

PPresin should be stored to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't 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. Detailed information is provided in the relevant Material Safety Data Sheet (MSDS).

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