



PP 412MK49

PP Impact co-polymer for Injection Molding

Product Description

PP 412MK49 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 412MK49 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.	45	D 1238
Density @ 23°C	kg/m ³	905	D 792
Mechanical Properties ⁽²⁾			
Tensile Strength @ Yield	MPa	28	D 638
Tensile Elongation @ Yield	%	4	D 638
Flexural Modulus (1% Secant)	MPa	1450	D 790A
		1650	D 790B
Notched Izod Impact Strength @ 23°C	J/m	55	D 256
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	D 1525A
Heat Deflection Temperature @ 455 KPa	°C	112	D 648 A

(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, up to 65°C for thick parts.

Food Regulation

PP 412MK49 is suitable for food contact application. For the certificate please contact SABIC local representative.

Storage and Handling

PP resin 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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