

SABIC® PP 412MK49

Polypropylene Impact Copolymer

SABIC Americas, Inc.

Message:

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 houseware, toys, appliances and thin wall containers (Food and non food).

General Information			
Additive	Antistatic		
	Nucleating Agent		
Features	Antistatic		
	Food Contact Acceptable		
	Good Impact Resistance		
	High Stiffness		
	Impact Copolymer		
	Low Temperature Impact Resistance		
	Medium Flow		
	Nucleated		
Uses	Containers		
	Household Goods		
	Outdoor Applications		
	Toys		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	45	g/10 min	ASTM D1238
Molding Shrinkage	1.2 to 2.5	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant (Injection Molded)	1500	MPa	ASTM D638
Tensile Strength (Yield, Injection Molded)	28.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	5.0	%	ASTM D638

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, Injection Molded	35	J/m	
23°C, Injection Molded	65	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	103	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525 ¹
Injection	Nominal Value	Unit	
Rear Temperature	200 to 245	°C	
Middle Temperature	200 to 245	°C	
Front Temperature	200 to 245	°C	
Mold Temperature	15.0 to 40.0	°C	
NOTE			
1.	Rate B (120°C/h)		

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