

# SABIC® PP 49MK45

Polypropylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

PP 49MK45 is specially developed for producing injection molded articles. It has medium flow properties , good impact resistance and high stiffness.  
Typical Applications:  
PP 49MK45 can be used for houseware, garden furniture ,toys and thin wall containers.  
The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
Additive	Nucleating agent		
	Antistatic property		
Features	Block Copolymer		
	Nucleated		
	Rigidity, high		
	Antistatic property		
	Impact resistance, good		
	Medium liquidity		
Uses	Thin wall container		
	Furniture		
	Household goods		
	Toys		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	21	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1650	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	29.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	4.5	kJ/m <sup>2</sup>	ISO 179/1eA
23°C	7.0	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Izod Impact			ISO 180/1A

0°C	4.5	kJ/m <sup>2</sup>	ISO 180/1A
23°C	6.0	kJ/m <sup>2</sup>	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature <sup>1</sup>			
0.45 MPa, not annealed	105	°C	ISO 75-2/Bf
1.8 MPa, not annealed	65.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	150	°C	ISO 306/A120
--	80.0	°C	ISO 306/B120
NOTE			
1.	80*10*4mm		

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