

SABIC® PP 612MK10

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

This grade is especially developed for Pails and Containers. Special characteristics of this grade are a high crystallisation temperature, very high flow in combination with medium impact performance and low taste influences. This enables outstanding processability, very easy mould filling, short cycle times and an optimal grade for food-contact applications. SABIC® PP 612MK10 is like all SABIC® PP products formulated to allow trouble free processing. The material is also available in an antistatic version.

General Information			
Features	Block Copolymer		
	Workability, good		
	Fast molding cycle		
	High liquidity		
	The smell is low to none		
	Compliance of Food Exposure		
	Medium impact resistance		
Uses	Container		
	Food container		
	Barrel		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	33	g/10 min	ISO 1133
230°C/5.0 kg	140	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	67		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield, 2.00mm	27.0	MPa	ISO 527-2/50
Fracture, 2.00mm	18.0	MPa	ISO 527-2/50
Tensile Strain (Break, 2.00 mm)	50	%	ISO 527-2/50
Flexural Modulus ¹	1450	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	4.0	kJ/m ²	ISO 179
0°C	5.5	kJ/m ²	ISO 179

23°C	9.0	kJ/m ²	ISO 179
Notched Izod Impact			ISO 180/A
-20°C	4.0	kJ/m ²	ISO 180/A
0°C	5.0	kJ/m ²	ISO 180/A
23°C	8.0	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	102	°C	ISO 75-2/B
1.8 MPa, not annealed	52.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	147	°C	ISO 306/A50
--	70.0	°C	ISO 306/B50
Additional Information			
Strain at Break, ISO 527, 2mm, 50mm/min: >50%			
NOTE			
1.	Method I (three-point load)		

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