

SABIC® PP 680K

Polypropylene Random Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP 680K is a new development grade in the blow moulding product range. Impact, transparency, stiffness are well balanced and give you the opportunity to make very nice blow moulding products. High transparency, contact clarity and gloss will produce appealing blow moulded bottles. These properties, combined with a high heat deflection temperature, result in a wide variety of applications where this material can be used.

SABIC® PP 680K is used for various blow moulding processes like Extrusion Blow Moulding and Injection (Stretch) Blow Moulding. 680K applications range from household to personal care products, but the material is also very suited for food packaging where a high heat distortion could be required. The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
Additive	Clarifier		
Features	Rigid, good		
	Highlight		
	Impact resistance, good		
	Definition, high		
	Transparent appearance		
	Random copolymer		
Uses	Blow molding applications		
	Household goods		
	Food packaging		
Appearance	Clear/transparent		
Processing Method	Blow molding		
	Extrusion blow molding		
	Injection blowing molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.7	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% secant ¹	1050	MPa	ASTM D638
--	950	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield ²	27.0	MPa	ASTM D638
Yield	26.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ³	14	%	ASTM D638

Yield	13	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C	200	J/m	ASTM D256A
23°C	8.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	70.0	°C	ASTM D648
0.45 MPa, not annealed ⁴	65.0	°C	ISO 75-2/Bf
Optical	Nominal Value	Unit	Test Method
Haze	9.0	%	ASTM D1003
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	testbar 80*10*4mm		

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