

SABIC® PP QR681K

Polypropylene Random Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP QR681K is a new highly transparent random copolymer grade in the blow moulding product range. Impact, transparency, stiffness are well balanced and give you the opportunity to make weight optimized blow moulding products. This grade combines improved aesthetics of the finished articles with low temperature processability. Part aesthetics are not affected by the lower temperatures, providing for a broader operating window. 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 the SABIC® PP QR681K can be used.

Application:

SABIC® PP QR681K is used for various blow moulding processes like Extrusion Blow Moulding and Injection (Stretch) Blow Moulding. SABIC® PP QR681K 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	Contact Clarity
	High Clarity
	High Gloss
	Random Copolymer
Uses	Bottles
	Food Packaging
	Household Goods
Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Blow Molding
	Extrusion Blow Molding
	Injection Stretch Blow Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.2	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, Unannealed	70.0	°C	ASTM D648
0.45 MPa, Unannealed ⁴	65.0	°C	ISO 75-2/Bf
Optical	Nominal Value	Unit	Test Method
Haze (1000 μm)	8.0	%	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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