SABIC® PP QR674K

Polypropylene Random Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP QR674K is a high melt flow index random copolymer with excellent transparency and good antistatic properties. This grade combines improved aesthetics of the finished articles with low temperature processability and a very good organoleptic performance. Part aesthetics are not affected by the lower temperatures, providing for a broader operating window. The SABIC®PP QR674K presents excellent flow behaviour, easy demoulding and good stiffness to impact ratio.
SABIC® PP QR674K is mainly used in injection moulding processes. The SABIC® PP QR674K aims at transparent applications were higher MFI's with good flow are required. Its intended applications include injection moulded housewares, office & home storage boxes, thin wall packaging, lids and caps & closures.
The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information	
Additive	Antistatic
	Clarifier
Features	Antistatic
	Good Impact Resistance
	Good Mold Release
	Good Organoleptic Properties
	Good Processability
	Good Stiffness
	High Clarity
	High Flow
	Pleasing Surface Appearance
	Random Copolymer
Uses	Caps
	Closures
	Containers
	Household Goods
	Lids
	Thin-walled Packaging
	Transparent Parts
Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Injection 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)	40	g/10 min	ASTM D1238, ISO 1133

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Shore Hardness (Shore D)	64		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
1% Secant [1]	1200	MPa	ASTM D638
--	1150	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield [2]	29.0	MPa	ASTM D638
Yield	29.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield [3]	13	%	ASTM D638
Yield	13	%	ISO 527-2/1A/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
0°C	2.0	kJ/m^2	
23°C	4.5	kJ/m^2	
Notched Izod Impact			
0°C	25	J/m	ASTM D256A
23°C	45	J/m	ASTM D256A
0°C	2.0	kJ/m^2	ISO 180/1A
23°C	4.0	kJ/m^2	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed	80.0	°C	ASTM D648
0.45 MPa, Unannealed [4]	75.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	57.0	°C	ASTM D648
1.8 MPa, Unannealed [5]	52.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	125	°C	ASTM D1525, ISO 306/A120 5 [6]
--	70.0	°C	ASTM D1525, ISO 306/B120 6 [7]
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	testbar 80*10*4mm		
5.	testbar 80*10*4mm		
6.	Rate B (120°C/h), Loading 1 (10 N)		
7.	Rate B (120°C/h), Loading 2 (50 N)		

infringement occurs, please contact us immediately.

Recommended distributors for this material

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