SABIC® PP QR678K

Polypropylene Random Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP QR678K is a very 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. Part aesthetics are not affected by the lower temperatures, providing for a broader operating window. The SABIC® PP QR678K presents excellent flow behaviour, easy demoulding and good stiffness to impact ratio.
Application:
SABIC® PP QR678K is mainly used in injection moulding processes. The SABIC® PP QR678K 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 and media packaging.
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 Mold Release High Clarity High Flow Random Copolymer		
Uses	Containers Household Goods Media Packaging 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)	80	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]	1150	MPa	ASTM D638
--	1100	MPa	ISO 527-2/1A/1

Tensile Strength			
Yield [2]	28.0	MPa	ASTM D638
Yield	28.0	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	1.5	kJ/m^2	
23°C	4.0	kJ/m^2	
Notched Izod Impact			
0°C	20	J/m	ASTM D256A
23°C	40	J/m	ASTM D256A
0°C	1.5	kJ/m^2	ISO 180/1A
23°C	3.5	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)

Recommended distributors for this material

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