

SABIC® PP 670Kh

Polypropylene Random Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP 670Kh is a polypropylene random copolymer grade with medium melt flow intended for producing injection-moulded articles of high clarity. This product is formulated with an additive package, which enables a reduced cooling time in combination with high demoulding temperature. Products from SABIC® PP 670Kh have a very high clarity, a good impact strength-stiffness balance and good organoleptic properties. Closures from SABIC® PP 670Kh have excellent hinge strength.

SABIC® PP 670Kh typically is used in caps & closures, lids, housewares, and appliances.

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
UL YellowCard	E111275-100607605		
Additive	Clarifier		
Features	Good Impact Resistance		
	Good Organoleptic Properties		
	Good Stiffness		
	High Clarity		
	Medium Flow		
	Random Copolymer		
Uses	Appliances		
	Caps		
	Closures		
	Household Goods		
	Lids		
UL File Number	E111275		
Processing Method	Injection 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)	11	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	94		ASTM D785
Shore Hardness (Shore D)	64		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	1150	MPa	ASTM D638
--	1050	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield ²	28.0	MPa	ASTM D638

Yield	27.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ³	14	%	ASTM D638
Yield	14	%	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	6.5	kJ/m ²	
Notched Izod Impact			
0°C	30	J/m	ASTM D256A
23°C	60	J/m	ASTM D256A
0°C	2.5	kJ/m ²	ISO 180/1A
23°C	6.0	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	55.0	°C	ASTM D648
1.8 MPa, Unannealed ⁵	50.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	126	°C	ASTM D1525, ISO 306/A120 6 ⁶
--	69.0	°C	ASTM D1525, ISO 306/B120 7 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)		

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