

SABIC® PP CPC04C

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP CPC04C is our newest development in our CLEARPACT range. In this new type of PP material, we combined impact resistance and stiffness of a regular block copolymer with a transparency level of typical random copolymers. These polymer properties combined with its formulation of processing and antistatic additives makes this a unique material in the market.

SABIC® PP CPC04C is typically used in various thermoforming processes for food packaging. Our customers use this material in the production of MAP-trays and packaging for chilled and frozen meals.

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

General Information			
UL YellowCard	E111275-100605364		
Additive	Antistatic		
	Clarifier		
	Processing Aid		
Features	Antistatic		
	Good Impact Resistance		
	Good Stiffness		
	High Clarity		
Uses	Food Packaging		
UL File Number	E111275		
Processing Method	Thermoforming		
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)	4.0	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	99		ASTM D785
Shore Hardness (Shore D)	63		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	28.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ³	12	%	ASTM D638
Yield	12	%	ISO 527-2/1A/50

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	5.0	kJ/m ²	
23°C	40	kJ/m ²	
Notched Izod Impact			
0°C	50	J/m	ASTM D256A
23°C	400	J/m	ASTM D256A
0°C	4.5	kJ/m ²	ISO 180/1A
23°C	30	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			
--	140	°C	ASTM D1525, ISO 306/A120 6 ⁶
--	75.0	°C	ASTM D1525 ⁷
--	70.0	°C	ISO 306/B120
Optical	Nominal Value	Unit	Test Method
Haze	36	%	ASTM D1003
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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