

# SABIC® PP CX04-81

Polypropylene

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® PP CX04-81 is a high flowing high crystalline copolymer. Its very high flow and highly isotropic behaviour permits fast cycle-times and injection moulding of large articles demanding low warpage and high dimensional stability. Typical applications are automotive interior components.

SABIC® PP CX04-81 is a designated automotive grade.

General Information			
Additive	Nucleating Agent		
	UV Stabilizer		
Features	Copolymer		
	Crystalline		
	Fast Molding Cycle		
	Good Dimensional Stability		
	Good UV Resistance		
	High Flow		
	Low Warpage		
	Nucleated		
Uses	Automotive Applications		
	Automotive Interior Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	40	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			Internal Method
Flow : 24 hr	1.4	%	
24 hr	1.4	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	64		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant : Injection Molded <sup>1</sup>	1600	MPa	ASTM D638
Injection Molded	1500	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield, Injection Molded <sup>2</sup>	26.0	MPa	ASTM D638
Yield, Injection Molded	26.0	MPa	ISO 527-2/1A/50

Tensile Elongation			
Yield, Injection Molded <sup>3</sup>	4.0	%	ASTM D638
Yield, Injection Molded	4.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C, Injection Molded	6.0	kJ/m <sup>2</sup>	
23°C, Injection Molded	8.0	kJ/m <sup>2</sup>	
Notched Izod Impact			
-20°C, Injection Molded	50	J/m	ASTM D256A
0°C, Injection Molded	70	J/m	ASTM D256A
23°C, Injection Molded	90	J/m	ASTM D256A
-20°C, Injection Molded	4.0	kJ/m <sup>2</sup>	ISO 180/1A
0°C, Injection Molded	6.0	kJ/m <sup>2</sup>	ISO 180/1A
23°C, Injection Molded	8.0	kJ/m <sup>2</sup>	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	150	°C	ASTM D1525, ISO 306/A120 4 <sup>4</sup>
--	78.0	°C	ASTM D1525, ISO 306/B120 5 <sup>5</sup>
NOTE			
1.	5.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	Rate B (120°C/h), Loading 1 (10 N)		
5.	Rate B (120°C/h), Loading 2 (50 N)		

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