SABIC® PP CX03-81

Polypropylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP CX03-81 is a high crystalline copolymer. It offers high impact resistance, in perfect balance with high thermal dimensional stability, stiffness and flow.This material has excellent aesthetic properties as well and is typically used for automotive interior applications. It is the obvious alternative to conventional talc-filled copolymers, offering considerable weight saving advantage.
SABIC® PP CX03-81 is a designated automotive grade.

General Information			
Additive	Nucleating Agent UV Stabilizer		
Features	Copolymer Crystalline Good Dimensional Stability Good Flow Good Stiffness High Impact Resistance Nucleated Pleasing Surface Appearance		
Uses	Automotive Applications Automotive Interior Parts		
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)	10	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			Internal Method
Flow : 24 hr	1.6	%	
24 hr	1.6	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, Injection Molded)	65		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
1% Secant : Injection Molded [1]	1300	MPa	ASTM D638
Injection Molded	1250	MPa	ISO 527-2/1A/1
Tensile Strength			

Yield, Injection Molded [2]	22.0	MPa	ASTM D638
Yield, Injection Molded	22.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield, Injection Molded [3]	6.0	%	ASTM D638
Yield, Injection Molded	5.0	%	ISO 527-2/1A/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
0°C, Injection Molded	No Break		
23°C, Injection Molded	No Break		
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact			
-20°C, Injection Molded	90	J/m	ASTM D256A
0°C, Injection Molded	No Break		ASTM D256A
23°C, Injection Molded	No Break		ASTM D256A, ISO 180/1A
-20°C, Injection Molded	8.0	kJ/m^2	ISO 180/1A
0°C, Injection Molded	20	kJ/m^2	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature			
--	145	°C	ASTM D1525, ISO 306/A120 4 [4]
--	66.0	°C	ASTM D1525, ISO 306/B120 5 [5]

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)

Recommended distributors for this material

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