SABIC® PP CX02-82

Polypropylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP CX02-82 is an emission optimised high crystalline copolymer. It offers high stiffness, in perfect balance with high thermal dimensional stability, impact resistance 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 CX02-82 is a designated automotive grade.

General Information			
Additive	Nucleating Agent UV Stabilizer		
Features	Copolymer Crystalline Good Dimensional Stability Good Flow Good Impact Resistance High Stiffness 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)	15	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]	1600	MPa	ASTM D638
Injection Molded	1550	MPa	ISO 527-2/1A/1
Tensile Strength			

Yield, Injection Molded [2]	26.0	MPa	ASTM D638
Yield, Injection Molded	27.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield, Injection Molded [3]	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	8.0	kJ/m^2	
23°C, Injection Molded	13	kJ/m^2	
Notched Izod Impact			
-20°C, Injection Molded	70	J/m	ASTM D256A
0°C, Injection Molded	75	J/m	ASTM D256A
23°C, Injection Molded	100	J/m	ASTM D256A
-20°C, Injection Molded	6.0	kJ/m^2	ISO 180/1A
0°C, Injection Molded	7.0	kJ/m^2	ISO 180/1A
23°C, Injection Molded	11	kJ/m^2	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature			
--	151	°C	ASTM D1525, ISO 306/A120 4 [4]
--	80.0	°C	ASTM D1525, ISO 306/B120 5 [5]
Flammability	**Nominal Value**	**Unit**	**Test Method**
Carbon Emission	< 50.0	µg/g	VDA 277

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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