

# SABIC® PP CX03-81

PP HIGH CRYSTALLINITY

## DESCRIPTION

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.

IMDS ID: 80775790

## TYPICAL PROPERTY VALUES

Revision 20240709

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 230 °C and 2.16 kg	10	dg/min	ISO 1133
<b>Density</b>	905	kg/m <sup>3</sup>	ISO 1183
<b>Mould shrinkage</b>			
24 hours after injection moulding <sup>(1)</sup>	1.6	%	SABIC method
<b>FORMULATION</b>			
<b>UV stabilized</b>	<input checked="" type="checkbox"/>	-	-
<b>Anti static agent</b>	<input type="checkbox"/>	-	-
<b>Nucleating agent</b>	<input checked="" type="checkbox"/>	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
stress at yield <sup>(2)</sup>	22	MPa	ISO 527-2 1A
strain at yield	5	%	ISO 527-2 1A
tensile modulus <sup>(3)</sup>	1250	MPa	ISO 527-2 1A
<b>Izod impact notched</b>			
at 23 °C	No Break	kJ/m <sup>2</sup>	ISO 180/1A
at 0 °C	20	kJ/m <sup>2</sup>	ISO 180/1A
at -20 °C	8	kJ/m <sup>2</sup>	ISO 180/1A
<b>Charpy Impact Strength Notched</b>			
at 23 °C	No Break	kJ/m <sup>2</sup>	ISO 179/1eA
at 0 °C	No Break	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Charpy impact unnotched</b>			
at 23 °C	No Break	kJ/m <sup>2</sup>	ISO 179/1eU
<b>Hardness Shore D</b>	65	-	ISO 868
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature <sup>(4)</sup></b>			
at 10 N (VST/A)	145	°C	ISO 306
at 50 N (VST/B)	66	°C	ISO 306

- (1) All measurements on injection molded samples.
- (2) Speed of testing: 50 mm/min
- (3) Speed of testing: 1 mm/min
- (4) Temperature rate: 120°C/h

## STORAGE AND HANDLING

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and/or high humidity as this could well speed up alteration and consequently loss of quality of the material and/or its packaging. Keep material completely dry for good processing.

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