

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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	10	dg/min	ISO 1133
Density	905	kg/m³	ISO 1183
Mould shrinkage			
24 hours after injection moulding ⁽¹⁾	1.6	%	SABIC method
FORMULATION			
UV stabilized	<input checked="" type="checkbox"/>	-	-
Anti static agent	<input type="checkbox"/>	-	-
Nucleating agent	<input checked="" type="checkbox"/>	-	-
MECHANICAL PROPERTIES			
Tensile test			
stress at yield ⁽²⁾	22	MPa	ISO 527-2 1A
strain at yield	5	%	ISO 527-2 1A
tensile modulus ⁽³⁾	1250	MPa	ISO 527-2 1A
Izod impact notched			
at 23 °C	No Break	kJ/m²	ISO 180/1A
at 0 °C	20	kJ/m²	ISO 180/1A
at -20 °C	8	kJ/m²	ISO 180/1A
Charpy Impact Strength Notched			
at 23 °C	No Break	kJ/m²	ISO 179/1eA
at 0 °C	No Break	kJ/m²	ISO 179/1eA
Charpy impact unnotched			
at 23 °C	No Break	kJ/m²	ISO 179/1eU
Hardness Shore D	65	-	ISO 868
THERMAL PROPERTIES			
Vicat Softening Temperature ⁽⁴⁾			
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

