SABIC® PP CX03-82

PP HIGH CRYSTALLINITY

DESCRIPTION

SABIC® PP CX03-82 is an emission optimised high crystalline copolymer. It offers high impact resistance, in perfect balance with high thermal dimensional stability, stiffness and flow. This for automotive interior applications UV-stabilised material has excellent aesthetic properties as well. It is the obvious alternative to connventional talc-filled copolymers, offering considerable weight saving advantage.

SABIC® PP CX03-82 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
Emission	<50	µg C/g	VDA 277
FORMULATION			
UV stabilized	☑	-	-
Anti static agent	☐	-	-
Nucleating agent	☑	-	-
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	60	-	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