

# SABIC® PP 956 10

PP SUPER HIGH IMPACT

## DESCRIPTION

SABIC® PP 956 10 is a reactor-elastomer-modified material which offers an excellent cold impact resistance. It is a highly attractive alternative to non-filled compounds and is commonly used for car bumpers.

SABIC® PP 956 10 is a designated automotive grade.

IMDS ID: 80775790

## TYPICAL PROPERTY VALUES

Revision 20180807

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 230 °C and 2.16 kg	6	dg/min	ISO 1133
<b>Density</b>	900	kg/m <sup>3</sup>	ISO 1183
<b>Mould shrinkage <sup>(1)</sup></b>			
24 hours after injection moulding	1.5	%	SABIC method
<b>FORMULATION</b>			
<b>Anti static agent</b>	<input type="checkbox"/>	-	-
<b>Nucleating agent</b>	<input type="checkbox"/>	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
stress at yield <sup>(2)</sup>	18	MPa	ISO 527-2 1A
strain at yield	9	%	ISO 527-2 1A
tensile modulus <sup>(3)</sup>	850	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	No Break	kJ/m <sup>2</sup>	ISO 180/1A
at -20 °C	45	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
at -20 °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>	50	-	ISO 868
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature <sup>(4)</sup></b>			
at 10 N (VST/A)	125	°C	ISO 306
at 50 N (VST/B)	49	°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.

## DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.