

SABIC® PP PPA20

PP IMPACT COPOLYMER - PROVISIONAL DATASHEET

DESCRIPTION

SABIC® PP PPA20 is an impact copolymer with an excellent optical performance – high gloss, high scratch resistance and low stress whitening. The material exhibits high flow and impact resistance combined with high stiffness. The overall properties make this grade favorable for various applications where a good balance of mechanical and optical properties are required such as home appliances, caps and closures, houseware, food and non-food rigid packaging and furniture.

Health, Safety and Food Contact regulations: Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site <http://www.SABIC.com>

This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

Revision 20230404

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	20	dg/min	ISO 1133
Density	905	kg/m ³	ASTM D 1505
Mould shrinkage			
24 hours after injection moulding	1.3	%	SABIC method
MECHANICAL PROPERTIES			
Tensile test			
tensile modulus ⁽¹⁾	1550	MPa	ISO 527-2 1A
Izod impact notched			
at 23 °C	5	kJ/m ²	ISO 180/1A
at 0 °C	3	kJ/m ²	ISO 180/1A
at -20 °C	2	kJ/m ²	ISO 180/1A
Charpy Impact Strength Notched			
at -20 °C	2	kJ/m ²	ISO 179/1eA
at 23 °C	6	kJ/m ²	ISO 179/1eA
at 0 °C	3	kJ/m ²	ISO 179/1eA
OPTICAL PROPERTIES			
Gloss (20°)	80	%	ISO 2813
Gloss (60°)	90	%	ASTM D2457
THERMAL PROPERTIES			
Heat deflection temperature ⁽²⁾			
at 0.45 MPa (HDT/B)	100	°C	ISO 75
at 1.80 MPa (HDT/A)	60	°C	ISO 75
Vicat Softening Temperature ⁽³⁾			
at 50 N (VST/B)	80	°C	ISO 306
at 10 N (VST/A)	151	°C	ISO 306

(1) Speed of testing: 1 mm/min

(2) Flat wise (testbar 80*10*4mm)

(3) 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.