

SABIC® PP PHC27

PP IMPACT COPOLYMER

DESCRIPTION

SABIC® PP PHC27 combines very high impact resistance, also at low temperatures, with a good stiffness and offers very good flow properties. Thanks to very low tendency to warp, it is typically used for injection moulding of crates & boxes, suitcase shells and automotive parts.

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>

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

This grade material is UL registered under File E111275 (www.ul.com) / IMDS 80775790

TYPICAL PROPERTY VALUES

Revision 20240709

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	14	dg/min	ISO 1133
Density	905	kg/m ³	ASTM D1505
FORMULATION			
UV stabilized	<input type="checkbox"/>	-	-
Anti static agent	<input type="checkbox"/>	-	-
Nucleating agent	<input type="checkbox"/>	-	-
MECHANICAL PROPERTIES			
Tensile test			
strain at yield ⁽¹⁾	6	%	ISO 527-2 1A
stress at yield	21	MPa	ISO 527-2 1A
tensile modulus ⁽²⁾	1000	MPa	ISO 527-2 1A
Izod impact notched			
at 0 °C	13	kJ/m ²	ISO 180/1A
at -20 °C	9	kJ/m ²	ISO 180/1A
Izod impact notched			
at 23 °C	No Break	kJ/m ²	ISO 180/1A
Charpy Impact Strength Notched			
at 0 °C	15	kJ/m ²	ISO 179/1eA
at -20 °C	8	kJ/m ²	ISO 179/1eA
at 23 °C	60	kJ/m ²	ISO 179/1eA
Charpy impact unnotched			
at 23 °C	No Break	kJ/m ²	ISO 179/1eU
Hardness Shore D	60	-	ISO 868
THERMAL PROPERTIES			
Heat deflection temperature ⁽³⁾			
at 0.45 MPa (HDT/B)	80	°C	ISO 75

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
at 1.80 MPa (HDT/A)	50	°C	ISO 75
Vicat Softening Temperature ⁽⁴⁾			
at 10 N (VST/A)	145	°C	ISO 306
at 50 N (VST/B)	65	°C	ISO 306

(1) Speed of testing: 50 mm/min

(2) Speed of testing: 1 mm/min

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

(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

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