

SABIC® PP 576S

PP HOMOPOLYMER

DESCRIPTION

SABIC® PP 576S is a PP homopolymer grade that has good flow properties, very good demoulding properties and a narrow molecular weight distribution. Products made from SABIC® PP 576S typically have low warpage and a high gloss, high stiffness in combination with moderate impact strength at room temperature.

Application: SABIC® PP 576S is typically used in caps & closures and thin wall packaging both in food and non-food segments, and appliances.

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 7172624

TYPICAL PROPERTY VALUES

Revision 20210702

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	19	dg/min	ISO 1133
Density	905	kg/m³	ASTM D1505
FORMULATION			
Anti static agent	☒	-	-
Nucleating agent	☐	-	-
MECHANICAL PROPERTIES			
Tensile test			
tensile modulus ⁽¹⁾	1800	MPa	ISO 527-2 1A
strain at yield ⁽²⁾	9	%	ISO 527-2 1A
stress at yield	37	MPa	ISO 527-2 1A
Izod impact notched			
at 23 °C	3.0	kJ/m²	ISO 180/1A
Charpy Impact Strength Notched			
at 23 °C	4.0	kJ/m²	ISO 179/1eA
Hardness Shore D	71	-	ISO 868
THERMAL PROPERTIES			
Heat deflection temperature ⁽³⁾			
at 0.45 MPa (HDT/B)	90	°C	ISO 75
at 1.80 MPa (HDT/A)	60	°C	ISO 75
Vicat Softening Temperature ⁽⁴⁾			
at 50 N (VST/B)	94	°C	ISO 306
at 10 N (VST/A)	152	°C	ISO 306

(1) Speed of testing: 1 mm/min

(2) Speed of testing: 50 mm/min

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

(4) Temperature rate: 120°C/h

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CHEMISTRY THAT MATTERS™



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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