

# SABIC® PP 578L

## PP HOMOPOLYMER

### DESCRIPTION

SABIC® PP 578L is a PP homopolymer grade which contains a well balanced antistatic and slip agent package. This grade allows for cost efficient processing on the basis of good flow behavior, short cycle times, good demoulding and robust processing behaviour. Products made from SABIC® PP 578L typically have low warpage, high stiffness in combination with moderate impact strength at room temperature, good antistatic behavior and a high gloss.

Application: SABIC® PP 578L is typically used in caps & closures and thin wall packaging both in food and non-food segments.

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](http://www.ul.com)) / IMDS 7172624

### TYPICAL PROPERTY VALUES

Revision 20220721

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 230 °C and 2.16 kg	25	dg/min	ISO 1133
<b>Density</b>	905	kg/m <sup>3</sup>	ASTM D 1505
<b>FORMULATION</b>			
<b>Slip agent</b>	<input checked="" type="checkbox"/>	-	-
<b>Anti static agent</b>	<input checked="" type="checkbox"/>	-	-
<b>Nucleating agent</b>	<input type="checkbox"/>	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
tensile modulus <sup>(1)</sup>	1700	MPa	ISO 527-2 1A
strain at yield <sup>(2)</sup>	9	%	ISO 527-2 1A
stress at yield	36	MPa	ISO 527-2 1A
<b>Izod impact notched</b>			
at 23 °C	3.0	kJ/m <sup>2</sup>	ISO 180/1A
<b>Charpy Impact Strength Notched</b>			
at 23 °C	4.0	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Hardness Shore D</b>	69	-	ISO 868
<b>THERMAL PROPERTIES</b>			
<b>Heat deflection temperature <sup>(3)</sup></b>			
at 0.45 MPa (HDT/B)	90	°C	ISO 75
at 1.80 MPa (HDT/A)	55	°C	ISO 75
<b>Vicat Softening Temperature <sup>(4)</sup></b>			
at 50 N (VST/B)	95	°C	ISO 306
at 10 N (VST/A)	153	°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

## 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.

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