

# SABIC® PA6 S27

## POLYAMIDE 6

### DESCRIPTION

SABIC® PA S27 is a general purpose polyamide 6 resin of low viscosity.

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

### TYPICAL APPLICATIONS

Engineering Plastics Compounds, high tenacity filament, paper coating.

### TYPICAL PROPERTY VALUES

Revision 20211215

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>PHYSICAL PROPERTIES</b>			
<b>Water absorption (23°C-sat)</b>	11.1	%	ISO 62
<b>Water Content</b>			
Water content	<0.06	% w/w	ASTM D6869
<b>Extractable Content</b>			
Extractable Content	<0.6	% w/w	SABIC method
<b>PROPERTIES</b>			
<b>Viscosity</b>			
Relative Viscosity	2.7	-	ISO 307
<b>POLYMER PROPERTIES</b>			
<b>Density</b>			
Density	1.12	g/cm <sup>3</sup>	ASTM D792
<b>MECHANICAL PROPERTIES</b>			
<b>Rockwell Hardness</b>			
R scale	119	-	ASTM D785
<b>Tensile strength</b>			
@ Yield	82	MPa	ASTM D638
<b>Tensile Elongation</b>			
@ Yield	4	%	ASTM D638
@ Break	16	%	ASTM D638
<b>Tensile modulus</b>			
Tensile modulus	2650	MPa	ASTM D638
<b>Flexural strength</b>			
Flexural strength	107	MPa	ASTM D790
<b>Flexural Modulus</b>			
Flexural Modulus	2650	MPa	ASTM D790
<b>Izod Impact Strength</b>			
Notched, 23°C	5	kJ/m <sup>2</sup>	ASTM D256
<b>THERMAL PROPERTIES</b>			
<b>Heat deflection temperature</b>			
@ 1.80 MPa	58	°C	ASTM D648

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>Melting Temperature</b>			
Melting Temperature	219	°C	ASTM D3418

## PROCESSING CONDITIONS

Extrusion Temperature: 240°C-300°C

## STORAGE AND HANDLING

Polyamide resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process Polyamide resin within 6 months after delivery. In case material picks up moisture, customer is strongly advised to dry the resin prior to use. sd

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