



# SABIC® PA6 S32

## POLYAMIDE 6

### DESCRIPTION

SABIC® PA S32 is a general purpose polyamide 6 resin of medium viscosity.

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

### TYPICAL APPLICATIONS

Barrier films, high tenacity filaments for fishing net and tyre cord.

### TYPICAL PROPERTY VALUES

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	≤0.5	% w/w	SABIC method
<b>PROPERTIES</b>			
<b>Viscosity</b>			
Relative Viscosity	3.2	-	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	80	MPa	ASTM D638
<b>Tensile Elongation</b>			
@ Yield	4	%	ASTM D638
@ Break	87	%	ASTM D638
<b>Tensile modulus</b>			
Tensile modulus	2750	MPa	ASTM D638
<b>Flexural strength</b>			
Flexural strength	104	MPa	ASTM D790
<b>Flexural Modulus</b>			
Flexural Modulus	2650	MPa	ASTM D790
<b>Izod Impact Strength</b>			
Notched, 23°C	6	kJ/m <sup>2</sup>	ASTM D256
<b>THERMAL PROPERTIES</b>			
<b>Heat deflection temperature</b>			
@ 1.80 MPa	57	°C	ASTM D648



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>Melting Temperature</b>			
Melting Temperature	220	°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. In case material picks up moisture, customer is strongly adviced to dry the resin prior to use. 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.