

SABIC® PP 512A

POLYPROPYLENE HOMOPOLYMER

DESCRIPTION

SABIC® PP 512A is a controlled rheology grade with narrow molecular weight distribution intended for general purpose applications such as woven sacks lamination and injection molding.

SABIC® PP 512A has the following features: Consistent processability; Good thread line stability; Good color consistency; Good gas fading resistance.

TYPICAL APPLICATIONS

SABIC® PP512A can be used for woven sacks lamination, woven fabric coating and household articles.

TYPICAL PROPERTY VALUES

Revision 20201211

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230°C and 2.16kg	25	g/10 min	ASTM D1238
Density			
at 23°C	905	kg/m³	ASTM D792
MECHANICAL PROPERTIES			
Flexural Modulus (1% Secant)			
	1520	MPa	ASTM D790 A
Izod Impact Strength			
notched, at 23°C	22	J/m	ASTM D256
Rockwell Hardness, R-Scale			
	104	-	ASTM D785
FILM PROPERTIES			
Tensile Properties ⁽¹⁾			
stress at yield	35	MPa	ASTM D638
strain at yield	11	%	ASTM D638
THERMAL PROPERTIES			
Vicat Softening Temperature			
	155	°C	ASTM D1525
Heat deflection temperature			
at 455kPa	106	°C	ASTM D648

(1) Based on injection molded specimens.

PROCESSING CONDITIONS

Typical processing conditions for 512A are:

Average extrusion temperature range may be kept at 210 - 250°C.

Lower processing temperatures are possible with this material and will result in better long term heat aging.

STORAGE AND HANDLING

Polypropylene 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 PP resin within 6 months after delivery.

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CHEMISTRY THAT MATTERS™



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