

SABIC® PP 5161A

POLYPROPYLENE HOMOPOLYMER

DESCRIPTION

SABIC® PP5161A is a PP homopolymer grade specially designed for fiber extrusion applications with the following features: Consistent processability; Good thread line stability; Good color consistency; Good gas fading resistance.

TYPICAL APPLICATIONS

SABIC® PP5161A is suitable for extrusion of staple fibers used in geotextiles application with superior tensile properties.

TYPICAL PROPERTY VALUES

Revision 20230124

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230°C and 2.16kg	3.5	g/10 min	ASTM D1238
Density			
at 23°C	905	kg/m³	ASTM D792
MECHANICAL PROPERTIES			
Tensile Strength at Yield	36	MPa	ASTM D638
Tensile Elongation at Yield	9.0	%	ASTM D638
Flexural Modulus (1% Secant)	1460	MPa	ASTM D790 A
Izod Impact Strength			
notched, at 23°C	33.4	J/m	ASTM D256
Rockwell Hardness, R-Scale	106	-	ASTM D785
THERMAL PROPERTIES			
Vicat Softening Temperature	153	°C	ASTM D1525
Heat deflection temperature			
at 455kPa	103	°C	ASTM D648

PROCESSING CONDITIONS

Typical processing conditions for PP5161A are:

Average extrusion temperature range may be kept at 235 - 250°C.

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™

