

SABIC® PP 5101AR

POLYPROPYLENE HOMOPOLYMER

DESCRIPTION

SABIC® PP 5101AR is a homopolymer polypropylene resin and is intended for extrusion. It is ideally suited for woven & nonwoven application including staple fiber.

TYPICAL APPLICATIONS

Staple Fiber, Multifilament, Continuous Filament, Wig

This product is not intended for use in medical and pharmaceutical applications.

TYPICAL PROPERTY VALUES

Revision 20260209

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
@ 230°C/2.16 kg	15	g/10 min	ASTM D1238
MECHANICAL PROPERTIES			
Tensile Strength at Yield	35	MPa	ASTM D638
Tensile Strength at Break	28	MPa	ASTM D638
Flexural Modulus (1% Secant)	1650	MPa	ASTM D790 A
Izod Impact , Notched, 23 °C	2	kJ/m ²	ISO 180
Rockwell Hardness, R-Scale	108	-	ASTM D785
THERMAL PROPERTIES			
Heat Deflection Temperature at 455kPa	119	°C	ASTM D648

PROCESSING CONDITIONS

Typical processing conditions for 5101AR are:

Barrel temperature range: 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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