

# SABIC® PP 5241P

## POLYPROPYLENE HOMOPOLYMER

### DESCRIPTION

SABIC® PP 5241P is a polypropylene homopolymer resin for the extrusion of biaxially oriented film. Films made from this resin exhibit excellent optical, mechanical and moisture barrier properties. This product is suitable for metallization.

### TYPICAL APPLICATIONS

SABIC® PP 5241P can be used to produce plain & metallizable coextruded BOPP film. Used as base material for plain film used in stationary, food bags, synthetic paper and heat sealable barrier packaging film. This product is not intended for use in medical and pharmaceutical applications.

### TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
@ 230°C/2.16 kg	2.2	g/10 min	ASTM D1238
<b>Density</b>	905	kg/m <sup>3</sup>	ASTM D792
<b>MECHANICAL PROPERTIES <sup>(1)</sup></b>			
<b>Tensile Properties</b>			
Tensile Strength at Yield <sup>(2)</sup>	32	MPa	ASTM D638
Tensile Elongation at Yield <sup>(2)</sup>	9	%	ASTM D638
Tensile Strength at Break <sup>(2)</sup>	19	MPa	ASTM D638
Tensile Elongation at Break	155	%	ASTM D638
Flexural Modulus	1280	MPa	ASTM D790
Flexural Strength	34	MPa	ASTM D790
Izod impact notched at 23 °C	29	J/m	ASTM D256
Rockwell Hardness, R-Scale	98	-	ASTM D785
<b>OPTICAL PROPERTIES <sup>(2)</sup></b>			
<b>Haze</b>	0.2	%	ASTM D1003
<b>Gloss @ 45°</b>	155	-	ASTM D2457
<b>FILM PROPERTIES</b>			
<b>Tensile test film</b>			
Tensile Strength at Break, MD	110	MPa	ASTM D882
Tensile Strength at Break, TD	215	MPa	ASTM D882
Tensile Elongation at Break, MD	85	%	ASTM D882
Tensile Elongation at Break, TD	17	%	ASTM D882
1% Secant Modulus, MD	2050	MPa	ASTM D882
1% Secant Modulus, TD	3700	MPa	ASTM D882
<b>THERMAL PROPERTIES <sup>(1)</sup></b>			
<b>Vicat Softening Temperature</b>	153	°C	ASTM D1525

(1) Typical values only, not to be construed as specification limits

(2) Test specimen preparation method : Pursuant to ASTM D4101

