

# SABIC® PP 621P

Polypropylene Random Copolymer

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® PP 621P is a newly designed random copolymer polypropylene particularly for cast film applications with high clarity. Products produced out of SABIC® PP 621P have a high clarity, excellent sealing performance and high puncture resistance. The molecular structure of this grade is tailored for high performance processing. SABIC® PP 621P does not contain anti-block and slip agent. A grade with anti-block and slip agent is available as SABIC® PP 622L.

## Applications:

SABIC PP 621P is typically used in applications like food packaging, lamination film, stationary film, textile packaging, flower packaging, and hygiene packaging.

SABIC®PP 621P is also a partner resin of LLDPE for power stretch film to which high holding force is required in order to assure good pallet stability. Specific applications are: sparkling beverage, building & construction materials and in general unitized heavy goods. SABIC®PP 621P has a good rheological matching with LLDPE which result in an easy process-ability (see graph on second page).

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
Features	Good Heat Seal		
	Good Processability		
	High Clarity		
	Narrow Molecular Weight Distribution		
	Puncture Resistant		
	Random Copolymer		
Uses	Cast Film		
	Film		
	Food Packaging		
	Laminates		
	Packaging		
	Stationary Supplies		
Forms	Pellets		
	Cast Film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/5.0 kg	8.0	g/10 min	ASTM D1238
230°C/2.16 kg	8.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant <sup>1</sup>	900	MPa	ASTM D638
--	800	MPa	ISO 527-2/1A/1

Tensile Strength			
Yield <sup>2</sup>	26.0	MPa	ASTM D638
Yield	25.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield <sup>3</sup>	14	%	ASTM D638
Yield	13	%	ISO 527-2/1A/50
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	128	°C	ASTM D1525, ISO 306/A120 4 <sup>4</sup>
--	63.0	°C	ASTM D1525, ISO 306/B120 5 <sup>5</sup>
Optical	Nominal Value	Unit	Test Method
Haze (25.0 μm)	< 0.90	%	ASTM D1003
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	Rate B (120°C/h), Loading 1 (10 N)		
5.	Rate B (120°C/h), Loading 2 (50 N)		

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