

SABIC® PP 620P

Polypropylene Random Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP 620P is a general purpose random PP grade primarily produced for extrusion applications. Due to its basic design, it can be used in a wide range of applications. With the well balance mechanical properties and easy extrusion behaviour, it is highly useful in a wide range of applications. Typical applications are: extrusion blow moulding, sheet extrusion and other extrusion applications

General Information			
Features	General Purpose		
	Good Processability		
	Medium Isotactic		
	Random Copolymer		
	Wide Molecular Weight Distribution		
Uses	Blow Molding Applications		
	General Purpose		
	Sheet		
Processing Method	Blow Molding		
	Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.7	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	92		ASTM D785
Shore Hardness (Shore D)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	950	MPa	ASTM D638
--	850	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield ²	26.0	MPa	ASTM D638
Yield	25.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ³	13	%	ASTM D638
Yield	12	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C	200	J/m	ASTM D256A
23°C	8.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	128	°C	ASTM D1525, ISO 306/A120 4 ⁴
--	63.0	°C	ASTM D1525, ISO 306/B120 5 ⁵
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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