

SABIC® PP 500P

Polypropylene Homopolymer
Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP 500P is a medium flow, multipurpose grade for extrusion and injection moulding applications. If applied for extrusion this grade shows an excellent stretch ability and is therefore suitable for tapes and strapping, high tenacity yarns and carpet backing. For thermoforming it shows a unique balance between transparency, impact resistance and thickness uniformity. SABIC PP 500P is suitable for production of injection moulded articles e.g. caps and closures and house ware products, where this grade shows a high stiffness, combined with a fair impact resistance and very good surface hardness.

SABIC® PP 500P is a medium flow grade typically used in extrusion applications like sheet and thermoforming.

SABIC® PP 500P is typically used in dairy, flower pots, yellow fats and disposables plates and cups. However, customers use this grade also in combination with fillers like Talc and CaCO3.

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

General Information	
UL YellowCard	E111275-306882
Features	Good Impact Resistance
	Good Stretchability
	High Stiffness
	Homopolymer
	Medium Flow
	Medium Isotactic
Uses	Wide Molecular Weight Distribution
	Caps
	Carpet Backing
	Closures
	Cups
	Disposable Drinkware
	Household Goods
	Sheet
	Strapping
	Tape
	Yarn
UL File Number	E111275
Forms	Pellets
Processing Method	Extrusion
	Fiber (Spinning) Extrusion
	Filament Extrusion
	Injection Molding
	Thermoforming

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)	3.1	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	1550	MPa	ASTM D638
--	1550	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield ²	36.0	MPa	ASTM D638
Yield	37.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ³	10	%	ASTM D638
Yield	10	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C	35	J/m	ASTM D256A
23°C	3.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	90.0	°C	ASTM D648
0.45 MPa, Unannealed ⁴	85.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	60.0	°C	ASTM D648
1.8 MPa, Unannealed ⁵	55.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	152	°C	ASTM D1525, ISO 306/A ⁶
--	88.0	°C	ASTM D1525, ISO 306/B ⁷
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	testbar 80*10*4mm		
5.	testbar 80*10*4mm		
6.	Rate B (120°C/h), Loading 1 (10 N)		
7.	Rate B (120°C/h), Loading 2 (50 N)		

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