

SABIC® PP 505P

Polypropylene Homopolymer
Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP 505P is a multi purpose grade for extrusion and injection moulding applications.

SABIC® PP 505P provides an excellent stretch ability and is suitable for extrusion of tapes, strapping, high tenacity yarns but also for thermoformed articles. For injection moulded parts SABIC® PP 505P shows a moderate stiffness, good impact resistance and very good surface hardness. SABIC PP505P is suitable for production of caps and closures and house ware articles.

SABIC® PP 505P is a low mfi grade typically used in extrusion applications like sheet and thermoforming.

SABIC® PP 505P 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.

General Information			
UL YellowCard	E111275-306882		
Features	Good Impact Resistance		
	High Hardness		
	Homopolymer		
	Medium Isotactic		
	Wide Molecular Weight Distribution		
Uses	Caps		
	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/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238, ISO 1133

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	1500	MPa	ASTM D638
--	1500	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	40	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 ⁶
--	88.0	°C	ASTM D1525, ISO 306/B 7 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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