

# SABIC® PP 505P

Polypropylene Homopolymer

SABIC

PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

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

Application: 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 CaCO<sub>3</sub>.

Health, Safety and Food Contact regulations: Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site <http://www.SABIC.com>

This grade material is UL registered under File E111275 ([www.ul.com](http://www.ul.com))

### General

Material Status	• Commercial: Active		
UL Yellow Card <sup>1</sup>	• E111275-306882		
Search for UL Yellow Card	• SABIC • SABIC® PP		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Anti-gas fading: No	• Antistatic: No	• Nucleating Agent: No
Features	• Medium Isotactic	• Wide Molecular Weight Distribution	

Physical	Nominal Value Unit	Test Method
Density	0.905 g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0 g/10 min	ISO 1133

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	1500 MPa	ISO 527-1/1A/1
Tensile Stress (Yield)	37.0 MPa	ISO 527-2/1A
Tensile Strain (Yield)	10 %	ISO 527-2/1A/50

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.5 kJ/m <sup>2</sup>	ISO 179/1eA
Notched Izod Impact Strength (23°C)	3.5 kJ/m <sup>2</sup>	ISO 180/1A

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load <sup>3</sup>		
0.45 MPa, Unannealed, 4.00 mm	85.0 °C	ISO 75-2/Bf
1.8 MPa, Unannealed, 4.00 mm	55.0 °C	ISO 75-2/Af
Vicat Softening Temperature		
--	88.0 °C	ISO 306/B120
--	152 °C	ISO 306/A120

### Notes

<sup>1</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 80\*10\*4mm

