

SABIC® PP 504P

Polypropylene Homopolymer

SABIC Americas, Inc.

Message:

Provisional - PP Homopolymer for Raffia applications

PP 504P is specially developed for producing stretched tapes with following features.

Consistent processability

Easy orientation

Low water carry over

Good mechanical properties

Typical Applications

PP 504P can be used for producing woven bags, flexible intermediate bulk containers, ropes & twines, carpet backing, cable fillers and geotextiles.

General Information

Features	Food Contact Acceptable Good Processability Homopolymer Low Water Carryover
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Uses	Bags Carpet Backing Rope Tape Textile Applications Twine
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Forms	Pellets
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Processing Method	Extrusion Injection Molding
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Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	0.905	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.2	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	102		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	35.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	12	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	1450	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C, Injection Molded)	55	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	94.0	°C	ASTM D648
Vicat Softening Temperature	156	°C	ASTM D1525 ²
Injection	Nominal Value	Unit	
Rear Temperature	230 to 260	°C	
Middle Temperature	230 to 260	°C	
Front Temperature	230 to 260	°C	
NOTE			
1.	23°C		
2.	Rate B (120°C/h)		

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