

SABIC® PP 5703P

Polypropylene Homopolymer

SABIC Americas, Inc.

Message:

Provisional - PP Homopolymer for Injection Molding
PP 5703P is specially developed for producing rigid injection molded articles for general purpose applications. It gives consistent processability and high gloss at the products.
Typical Applications
PP 5703P can be used for houseware articles, food containers, garden furniture and toys.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	High Gloss		
	High Rigidity		
	Homopolymer		
Uses	Food Containers		
	Furniture		
	General Purpose		
	Household Goods		
	Outdoor Applications		
	Toys		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	0.905	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.2 to 2.5	%	
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)	34.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	12	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	1550	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	30	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	95.0	°C	ASTM D648
Vicat Softening Temperature	154	°C	ASTM D1525 ²
Injection	Nominal Value	Unit	
Rear Temperature	200 to 225	°C	
Middle Temperature	200 to 225	°C	
Front Temperature	200 to 225	°C	
Mold Temperature	15.0 to 40.0	°C	
NOTE			
1.	23°C		
2.	Rate B (120°C/h)		

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