

# Braskem PP H 503

Polypropylene Homopolymer

Braskem

## Message:

Description:  
H 503 is a low melt flow rate homopolymer with general purpose additive package. Designed for injection molding, raffia extrusion, bioriented film and general extrusion. This product exhibits excellent processability, good melt stability, good stiffness/impact strength balance and low odor and flavor transfer.

Applications:  
Flip-top and resealable closures; Thick wall parts; Domestic appliances; Industrial bags; Big bags; Compounds; Curtains and covers to aviary and agriculture; Monofilament for ropes; Fishing nets; Cables for boats; Bristles for tooth brushes and brooms.

General Information			
UL YellowCard	E120161-220430		
Features	General Purpose		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	High Melt Stability		
	Homopolymer		
	Low Odor Transfer		
	Non-Toxic		
Uses	Agricultural Applications		
	Armored Cable		
	Bags		
	Closures		
	Containers		
	Film		
	Food Packaging		
	Household Goods		
	Rope		
	Thick-walled Parts		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Fiber (Spinning) Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm <sup>3</sup>	ASTM D792, ISO 1183

Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	99		ASTM D785
R-Scale	99		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	35.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Yield, Injection Molded)	11	%	ASTM D638, ISO 527-2
Flexural Modulus			
1% Secant : Injection Molded	1400	MPa	ASTM D790
Injection Molded	1400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, Injection Molded	40	J/m	ASTM D256
23°C, Injection Molded	3.3	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, Injection Molded	98.0	°C	ASTM D648
0.45 MPa, Unannealed	98.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, Injection Molded	55.0	°C	ASTM D648
1.8 MPa, Unannealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature	155	°C	ISO 306/A, ASTM D1525 <sup>1</sup>
NOTE			
1.	Loading 1 (10 N)		

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