

# Braskem PP HP 500D

Polypropylene Homopolymer

Braskem

Message:

HP 500D is a low melt flow homopolymer, with high stiffness and impact strength.

Applications:

Extrusion of pipes, profiles, straps, sheets. Blow molding of industrial and automotive parts, bottles, reservoirs, foods and cosmetic packages.

Processing:

Extrusion

Blow Molding

General Information			
Features	Food Contact Acceptable		
	High Impact Resistance		
	High Stiffness		
	Homopolymer		
	Low Flow		
Uses	Automotive Applications		
	Bottles		
	Cosmetic Packaging		
	Non-specific Food Applications		
	Piping		
	Sheet		
	Strapping		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow Molding		
	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)	0.80	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	36.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Yield, Injection Molded)	6.0	%	ASTM D638, ISO 527-2
Flexural Modulus - 1% Secant			
Injection Molded	1300	MPa	ASTM D790
Injection Molded	1150	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, Injection Molded	45	J/m	ASTM D256
23°C, Injection Molded	4.3	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, Injection Molded	85.0	°C	ASTM D648
0.45 MPa, Unannealed	85.0	°C	ISO 75-2/B

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#### Recommended distributors for this material

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