

Braskem PP HP 502H

Polypropylene Homopolymer

Braskem

Message:

HP 502H is a low melt flow homopolymer.

Applications:
Extrusion of sheets for thermoformed pots. Extrusion Blow Molding of bottles and pharmaceutical applications.

Processing:
Extrusion
Thermoforming
Extrusion Blow Molding

General Information			
Features	Homopolymer		
	Low Flow		
Uses	Bottles		
	Pharmaceuticals		
	Sheet		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Extrusion		
	Extrusion Blow Molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.2	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)	34.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Yield, Injection Molded)	12	%	ASTM D638, ISO 527-2
Flexural Modulus - 1% Secant (Injection Molded)	1400	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, Injection Molded	45	J/m	ASTM D256
23°C, Injection Molded	3.0	kJ/m ²	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
1.8 MPa, Unannealed	60.0	°C	ISO 75-2/A
Vicat Softening Temperature	150	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Haze (1000 μm, Injection Molded)	30	%	ISO 13468

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