

# Braskem PP H 301

Polypropylene Homopolymer

Braskem

Message:

Description:  
H 301 is a high melt flow rate homopolymer designed for injection moulding and fiber extrusion. This product exhibits excellent processability with good melt strength and stiffness/impact strength balance. It also features low odor/taste transfer.

Applications:  
Household; Sealed or flip-top closures; Monofilaments for ropes, fishing nets; Continuous filaments for sewing threads, furniture, mattresses.

General Information			
Features	Good Impact Resistance		
	Good Melt Strength		
	Good Processability		
	Good Stiffness		
	Homopolymer		
	Low Odor Transfer		
	Non-Toxic		
Uses	Carpet Backing		
	Closures		
	Filaments		
	Household Goods		
	Rope		
	Tape		
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)	10	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	100		ASTM D785
R-Scale	100		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	32.0	MPa	ASTM D638, ISO 527-2

Tensile Elongation (Yield, Injection Molded)	14	%	ASTM D638, ISO 527-2
Flexural Modulus			
1% Secant : Injection Molded	1200	MPa	ASTM D790
Injection Molded	1250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, Injection Molded	25	J/m	ASTM D256
23°C, Injection Molded	2.8	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, Injection Molded	91.0	°C	ASTM D648
0.45 MPa, Unannealed	91.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, Injection Molded	53.0	°C	ASTM D648
1.8 MPa, Unannealed	53.0	°C	ISO 75-2/A
Vicat Softening Temperature	153	°C	ISO 306/A, ASTM D1525 <sup>1</sup>
NOTE			

1. Loading 1 (10 N)

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