

# Braskem PP CP 401 HC

Polypropylene Impact Copolymer

Braskem

Message:

Description:  
CP 401HC is a medium melt flow rate heterophasic copolymer, specially designed to achieve high stiffness/impact strength balance. This product offers good surface appearance and processability.

Applications:  
Garden furniture; Household appliances; Compounds.

General Information			
Features	Good Processability		
	Good Surface Finish		
	High Impact Resistance		
	High Stiffness		
	Impact Copolymer		
	Non-Toxic		
Uses	Furniture		
	Outdoor Applications		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	96		ASTM D785
R-Scale	96		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)	7.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
1% Secant : Injection Molded	1700	MPa	ASTM D790
Injection Molded	1650	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C, Injection Molded	25	J/m	ASTM D256

23°C, Injection Molded	70	J/m	ASTM D256
-20°C, Injection Molded	3.1	kJ/m <sup>2</sup>	ISO 180
23°C, Injection Molded	5.9	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, Injection Molded	124	°C	ASTM D648
0.45 MPa, Unannealed	125	°C	ISO 75-2/B
1.8 MPa, Unannealed, Injection Molded	64.0	°C	ASTM D648
1.8 MPa, Unannealed	64.0	°C	ISO 75-2/A
Vicat Softening Temperature	156	°C	ISO 306/A, ASTM D1525 <sup>1</sup>
NOTE			

1. Loading 1 (10 N)

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