

Braskem PP CP 404XP

Polypropylene Impact Copolymer

Braskem

Message:

CP 404XP is a medium melt flow rate heterophasic copolymer with suitable additives to produce caps and closures for carbonated beverages. This product exhibits high stiffness and impact strength balance, good productivity and dimensional stability.

General Information			
Features	Good Dimensional Stability		
	Good Impact Resistance		
	Good Processability		
	High Stiffness		
	Impact Copolymer		
	Medium Flow		
Uses	Caps		
	Closures		
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 ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	81		ASTM D785
R-Scale	81		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	30.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Yield, Injection Molded)	7.0	%	ASTM D638, ISO 527-2
Flexural Modulus - 1% Secant			
Injection Molded	1400	MPa	ASTM D790
Injection Molded	1450	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C, Injection Molded	40	J/m	ASTM D256
23°C, Injection Molded	120	J/m	ASTM D256
-20°C, Injection Molded	3.6	kJ/m ²	ISO 180

23°C, Injection Molded	8.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, Injection Molded	117	°C	ASTM D648
0.45 MPa, Unannealed	117	°C	ISO 75-2/B
1.8 MPa, Unannealed, Injection Molded	60.0	°C	ASTM D648
1.8 MPa, Unannealed	60.0	°C	ISO 75-2/A
Vicat Softening Temperature	153	°C	ISO 306/A, ASTM D1525 ¹
NOTE			
1.	Loading 1 (10 N)		

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