

Braskem PE CP 396XP

Polypropylene Impact Copolymer

Braskem

Message:

CP 396XP is a heterophasic copolymer designed for injection process, with high balance of processability, stiffness and impact resistance.

Applications:

Injection parts with high balance of stiffness and impact; Compounds.

Processing:

Injection Molding

General Information			
Features	Rigidity, high		
	Rigid, good		
	Copolymer		
	Impact resistance, good		
	Workability, good		
Uses	Composite		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.895	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R grade, injection molding	51		ASTM D785
R scale ¹	55		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, injection molding	17.0	MPa	ASTM D638
Yield, injection molding	19.0	MPa	ISO 527-2
Tensile Elongation			
Yield, injection molding	19	%	ASTM D638
Yield, injection molding	6.0	%	ISO 527-2
Flexural Modulus - 1% Secant			
Injection Molding	850	MPa	ASTM D790
Injection Molding	950	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C, injection molding	90	J/m	ASTM D256
23°C, injection molding	> 400	J/m	ASTM D256

-20°C, injection molding	9.0	kJ/m ²	ISO 180
23°C, injection molding	48	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, not annealed	66.0	°C	ISO 75-2/B
1.8 MPa, not annealed	49.0	°C	ISO 75-2/A
Vicat Softening Temperature	140	°C	ISO 306/A
NOTE			
1.	Injection Molded		

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