

Braskem PP CP 191

Polypropylene Copolymer

Braskem

Message:

Description:
CP 191 is an ultra high melt flow rate heterophasic copolymer designed for high-speed injection moulding machines. The product features excellent impact strength at low temperatures and it is suitable to thin-walled parts with very short injection moulding cycle.

Applications:
Household appliances; Packages for frozen desserts; Compounds.

General Information			
Features	Copolymer		
	Fast Molding Cycle		
	Low Temperature Impact Resistance		
	Non-Toxic		
	Tack Free		
Uses	Food Packaging		
	Household Goods		
	Table Products		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
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)	80	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	43		ASTM D785
R-Scale	43		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	19.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Yield, Injection Molded)	7.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
1% Secant : Injection Molded	900	MPa	ASTM D790
Injection Molded	1050	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C, Injection Molded	60	J/m	ASTM D256

23°C, Injection Molded	160	J/m	ASTM D256
-20°C, Injection Molded	6.1	kJ/m ²	ISO 180
23°C, Injection Molded	17	kJ/m ²	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	63.0	°C	ASTM D648
1.8 MPa, Unannealed	63.0	°C	ISO 75-2/A
Vicat Softening Temperature	137	°C	ISO 306/A, ASTM D1525 ¹
NOTE			
1.	Loading 1 (10 N)		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

