

Braskem PP CP 145

Polypropylene Impact Copolymer

Braskem

Message:

Description:
CP 145 is a high melt flow rate heterophasic copolymer for high performance injection moulding machines. It features high productivity in thin-walled parts and excellent organoleptic properties, once it is a reactor grade.

Applications:
Household; Thin-walled parts; Easy mould filling; Packages with excelent organoleptic properties.

General Information			
Features	Fast Molding Cycle		
	Good Impact Resistance		
	Good Moldability		
	Good Processability		
	Good Stiffness		
	High Flow		
	Impact Copolymer		
	Low Odor Transfer		
	Low Taste Transfer		
	Low Temperature Impact Resistance		
	Non-Toxic		
Uses	Household Goods		
	Thin-walled Parts		
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)	45	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	79		ASTM D785
R-Scale	79		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	26.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Yield, Injection Molded)	6.0	%	ASTM D638, ISO 527-2
Flexural Modulus			

1% Secant : Injection Molded	1300	MPa	ASTM D790
Injection Molded	1400	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	80	J/m	ASTM D256
-20°C, Injection Molded	3.9	kJ/m ²	ISO 180
23°C, Injection Molded	6.4	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, Injection Molded	110	°C	ASTM D648
0.45 MPa, Unannealed	110	°C	ISO 75-2/B
1.8 MPa, Unannealed, Injection Molded	57.0	°C	ASTM D648
1.8 MPa, Unannealed	57.0	°C	ISO 75-2/A
Vicat Softening Temperature	149	°C	ISO 306/A, ASTM D1525 ¹
NOTE			

1. Loading 1 (10 N)

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