

Braskem PP CP 741

High Melt Strength Polypropylene

Braskem

Message:

CP 741 is a low melt flow rate heterophasic copolymer. It has broad molecular weight distribution and general purpose additive package. CP 741 presents low odor/taste transfer, high melt strength, good processability and excellent impact strength even at low temperatures.

Applications:

Thermoformed packages with high impact strength; Blown packages and technical parts in general; sheet extrusion

General Information			
Features	Copolymer		
	Fatigue Resistant		
	Good Impact Resistance		
	Good Melt Strength		
	Good Processability		
	Low Odor Transfer		
	Med.-Wide Molecular Weight Distrib.		
	Non-Toxic		
Uses	Bottles		
	Corrugated Sheet		
	Food Packaging		
	Piping		
	Tape		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Thermoforming		
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)	0.80	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	65		ASTM D785
R-Scale	57		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			

Yield, Injection Molded	26.0	MPa	ASTM D638
Yield, Injection Molded	25.0	MPa	ISO 527-2
Tensile Elongation			
Yield, Injection Molded	12	%	ASTM D638
Yield, Injection Molded	17	%	ISO 527-2
Flexural Modulus			
1% Secant : Injection Molded	1100	MPa	ASTM D790
Injection Molded	1050	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C, Injection Molded	39	J/m	ASTM D256
23°C, Injection Molded	No Break		ASTM D256
-20°C, Injection Molded	3.9	kJ/m ²	ISO 180
23°C, Injection Molded	52	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, Injection Molded	90.0	°C	ASTM D648
0.45 MPa, Unannealed	79.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, Injection Molded	50.0	°C	ASTM D648
1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature	147	°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

