

Braskem PP PCD 0810

Polypropylene Impact Copolymer

Braskem

Message:

PCD 0810 is a high melt flow rate heterophasic copolymer developed for injection moulding applications. The product combines high impact strenght and good processability with a fair stiffness level. This resin can be used as impact booster for compounds.

Applications: Buckets; Battery cases; Industrial and grocery boxes; lids and caps; Compounds.

General Information			
Features	Good Processability		
	Good Stiffness		
	High Flow		
	High Impact Resistance		
	Impact Copolymer		
Uses	Battery Cases		
	Compounding		
	Industrial Containers		
	Lids		
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)	12	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	53		ASTM D785
R-Scale	53		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	20.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Yield, Injection Molded)	6.0	%	ASTM D638, ISO 527-2
Flexural Modulus - 1% Secant (Injection Molded)	900	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C, Injection Molded	65	J/m	ASTM D256
23°C, Injection Molded	No Break		ASTM D256
-20°C, Injection Molded	5.4	kJ/m ²	ISO 180

23°C, Injection Molded	42	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, Injection Molded	81.0	°C	ASTM D648
0.45 MPa, Unannealed	81.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, Injection Molded	49.0	°C	ASTM D648
1.8 MPa, Unannealed	49.0	°C	ISO 75-2/A
Vicat Softening Temperature	140	°C	ISO 306/A, ASTM D1525 ¹
NOTE			
1.	Loading 1 (10 N)		

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