

Braskem PP EP 440N

Polypropylene Impact Copolymer

Braskem

Message:

EP 440N is a medium melt flow rate heterophasic copolymer combining good impact strength, stiffness and easy processability.

Applications:

Injection Molding of thick parts, such as housewares, paint pails, buckets, containers, battery cases and toys.

Processing:

Injection Molding

General Information			
Features	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	Impact Copolymer		
	Medium Flow		
Uses	Battery Cases		
	Containers		
	Household Goods		
	Pails		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.903	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)	67		ASTM D785
Shore Hardness (Shore D, Injection Molded)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, Injection Molded	22.0	MPa	ASTM D638
Yield, Injection Molded	24.0	MPa	ISO 527-2
Tensile Elongation (Yield, Injection Molded)	6.0	%	ASTM D638, ISO 527-2
Flexural Modulus - 1% Secant (Injection Molded)	1050	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	140	J/m	ASTM D256
-20°C, Injection Molded	6.0	kJ/m ²	ISO 180
23°C, Injection Molded	40	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, Injection Molded	97.0	°C	ASTM D648
0.45 MPa, Unannealed	88.0	°C	ISO 75-2/B
Vicat Softening Temperature	145	°C	ISO 306/A, ASTM D1525 ¹
NOTE			
1.	Loading 1 (10 N)		

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