

Braskem PP EP 440L

Polypropylene Impact Copolymer

Braskem

Message:

EP 440L is a medium fluidity heterophasic copolymer with good impact strength, even at low temperature, combined with high stiffness and easy processability.

Applications:

Injection Molding of thick parts like housewares, paint pails, buckets, containers, battery cases, large toys.

Processing:

Injection Molding

General Information			
UL YellowCard	E120161-101725762		
Features	Good Impact Resistance		
	Good Processability		
	High Stiffness		
	Impact Copolymer		
	Low Temperature Impact Resistance		
	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	0.895	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	62		ASTM D785
R-Scale	62		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	24.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Yield, Injection Molded)	6.0	%	ASTM D638, ISO 527-2
Flexural Modulus - 1% Secant (Injection Molded)	1050	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
-20°C, Injection Molded	100	J/m	ASTM D256
23°C, Injection Molded	No Break		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	85.0	°C	ASTM D648
0.45 MPa, Unannealed	85.0	°C	ISO 75-2/B

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