

# Braskem PP EP 445L

Polypropylene Impact Copolymer

Braskem

Message:

EP 445L is a medium fluidity heterophasic copolymer with high stiffness and good impact strength. It contains antistatic and slip additives.

Applications:

Injection Molding of housewares and pots. Compression Molding of closures for soft drink and water bottles.

Processing:

Injection Molding

Compression Molding

General Information			
Additive	Antistatic		
	Slip		
Features	Antistatic		
	Good Impact Resistance		
	High Stiffness		
	Impact Copolymer		
	Medium Flow		
	Slip		
Uses	Closures		
	Household Goods		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm <sup>3</sup>	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	90		ASTM D785
R-Scale	72		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, Injection Molded	32.0	MPa	ASTM D638
Yield, Injection Molded	30.0	MPa	ISO 527-2
Tensile Elongation			

Yield, Injection Molded	7.0	%	ASTM D638
Yield, Injection Molded	6.0	%	ISO 527-2
Flexural Modulus			
1% Secant : Injection Molded	1450	MPa	ASTM D790
Injection Molded	1600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C, Injection Molded	25	J/m	ASTM D256
23°C, Injection Molded	80	J/m	ASTM D256
-20°C, Injection Molded	3.3	kJ/m <sup>2</sup>	ISO 180
23°C, Injection Molded	7.2	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, Injection Molded	105	°C	ASTM D648
0.45 MPa, Unannealed	100	°C	ISO 75-2/B

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