

Braskem PP EP 448S

Polypropylene Impact Copolymer

Braskem

Message:

EP 448S is a high fluidity heterophasic copolymer with excellent balance of stiffness and impact.

Applications:

Injection Molding of thin parts, closures, appliances, toys.

Processing:

Injection Molding

General Information			
Features	Good Impact Resistance		
	Good Stiffness		
	High Flow		
	Impact Copolymer		
Uses	Appliances		
	Closures		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/2.16 kg	36	g/10 min	ASTM D1238
230°C/2.16 kg	40	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	50		ASTM D785
R-Scale	50		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	29.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Yield, Injection Molded)	8.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
1% Secant : Injection Molded	1200	MPa	ASTM D790
Injection Molded	1100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C, Injection Molded	35	J/m	ASTM D256
23°C, Injection Molded	55	J/m	ASTM D256

-20°C, Injection Molded	2.9	kJ/m ²	ISO 180
23°C, Injection Molded	5.3	kJ/m ²	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	105	°C	ISO 75-2/B

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