

Braskem PP EP 448R

Polypropylene Impact Copolymer

Braskem

Message:

EP 448R 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			
UL YellowCard	E120161-101725763		
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)	25	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	67		ASTM D785
R-Scale	40		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, Injection Molded	23.0	MPa	ASTM D638
Yield, Injection Molded	26.0	MPa	ISO 527-2
Tensile Elongation			
Yield, Injection Molded	5.0	%	ASTM D638
Yield, Injection Molded	6.0	%	ISO 527-2
Flexural Modulus			
1% Secant : Injection Molded	1150	MPa	ASTM D790
Injection Molded	900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
-20°C, Injection Molded	80	J/m	ASTM D256
23°C, Injection Molded	130	J/m	ASTM D256
-20°C, Injection Molded	4.2	kJ/m ²	ISO 180
23°C, Injection Molded	9.2	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	92.0	°C	ISO 75-2/B

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