

Braskem PP EP 548S

Polypropylene Impact Copolymer

Braskem

Message:

EP 548S is a heterophasic copolymer of high fluidity, which provides high rigidity and resistance to the average impact. Due to its good organoleptic properties, it is recommended for use in packaging of food products that require low transfer of odor and taste.

Applications:

Injection Molding of toys, thin-walled rigid containers, home utilities and others.

Processing:

Injection Molding

General Information			
Features	Food Contact Acceptable		
	Good Impact Resistance		
	Good Organoleptic Properties		
	High Flow		
	Impact Copolymer		
	Low Odor Transfer		
	Low Taste Transfer		
Uses	Containers		
	Household Goods		
	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)	44	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	71		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	28.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Yield, Injection Molded)	7.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
1% Secant : Injection Molded	1350	MPa	ASTM D790
Injection Molded	1250	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	3.7	kJ/m ²	ISO 180
23°C, Injection Molded	4.8	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
Vicat Softening Temperature	145	°C	ISO 306/A, ASTM D1525 ¹
NOTE			
1.	Loading 1 (10 N)		

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