

Braskem PP ES 540S

Polypropylene Impact Copolymer

Braskem

Message:

ES 540S is a very high fluidity heterophasic copolymer with goof balance of stiffness and impact.

Applications:

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

Processing:

Injection Molding

General Information			
Features	Good Impact Resistance		
	Good Stiffness		
	High Flow		
	Impact Copolymer		
Uses	Appliances		
	Closures		
	Cups		
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)	42	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	70		ASTM D785
R-Scale	70		ISO 2039-2
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	1300	MPa	ASTM D790
Injection Molded	1250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, Injection Molded	35	J/m	ASTM D256
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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