# SureSpec HP-700

## Polypropylene Homopolymer

## **Genesis Polymers**

#### Message:

HP700 is a Polypropylene certified prime resin developed for injection molding and compounding general purpose applications. HP700 offers excellent high melt flow and easy processability. HP700 processing temperature is 220° to 240°C with mold at 20°- 50°C. HP700 complies with FDA regulation 21CFR 177.1520 (c)1.1a concerning the Polypropylene use in contact with food articles.

General Information				
Features	Homopolymer			
	Workability, good			
	High liquidity			
	Compliance of Food Exposure			
	General			
Uses	Composite			
	General			
Agency Ratings	FDA 21 CFR 177.1520(c) 1.			
Forms	Particle			
Processing Method	Composite			
	Injection molding			
	injection molaling			
Physical	Nominal Value	Unit	Test Method	
Density	0.904	g/cm³	ASTM D1505	
•				
Melt Mass-Flow Rate (MFR) (230°C/2.16	70	g/10 min	ASTM D1238	
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)		g/10 min Unit	ASTM D1238 Test Method	
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) Hardness	70	-		
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) Hardness Rockwell Hardness (R-Scale)	70 Nominal Value	-	Test Method	
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)  Hardness  Rockwell Hardness (R-Scale)  Mechanical	70 Nominal Value 104	Unit	Test Method ASTM D785	
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)  Hardness  Rockwell Hardness (R-Scale)  Mechanical  Tensile Strength <sup>1</sup> (Yield)	70  Nominal Value  104  Nominal Value	Unit	Test Method  ASTM D785  Test Method	
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)  Hardness  Rockwell Hardness (R-Scale)  Mechanical  Tensile Strength <sup>1</sup> (Yield)  Tensile Elongation <sup>2</sup> (Yield)	70 Nominal Value 104 Nominal Value 36.5	Unit Unit MPa	Test Method  ASTM D785  Test Method  ASTM D638	
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)  Hardness  Rockwell Hardness (R-Scale)  Mechanical  Tensile Strength <sup>1</sup> (Yield)  Tensile Elongation <sup>2</sup> (Yield)  Flexural Modulus - 1% Secant <sup>3</sup>	70 Nominal Value 104 Nominal Value 36.5 8.5	Unit Unit MPa %	Test Method  ASTM D785  Test Method  ASTM D638  ASTM D638	
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)  Hardness  Rockwell Hardness (R-Scale)  Mechanical  Tensile Strength <sup>1</sup> (Yield)  Tensile Elongation <sup>2</sup> (Yield)  Flexural Modulus - 1% Secant <sup>3</sup> Impact	70 Nominal Value 104 Nominal Value 36.5 8.5 1450	Unit Unit MPa % MPa	Test Method  ASTM D785  Test Method  ASTM D638  ASTM D638  ASTM D638  ASTM D790	
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)  Hardness  Rockwell Hardness (R-Scale)  Mechanical  Tensile Strength <sup>1</sup> (Yield)  Tensile Elongation <sup>2</sup> (Yield)  Flexural Modulus - 1% Secant <sup>3</sup> Impact  Notched Izod Impact	70 Nominal Value 104 Nominal Value 36.5 8.5 1450 Nominal Value	Unit Unit  Unit  MPa  %  MPa  Unit	Test Method  ASTM D785  Test Method  ASTM D638  ASTM D638  ASTM D790  Test Method	
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)  Hardness  Rockwell Hardness (R-Scale)  Mechanical  Tensile Strength <sup>1</sup> (Yield)  Tensile Elongation <sup>2</sup> (Yield)  Flexural Modulus - 1% Secant <sup>3</sup> Impact  Notched Izod Impact  Thermal  Deflection Temperature Under Load (0.4)	Nominal Value  104  Nominal Value  36.5  8.5  1450  Nominal Value  16  Nominal Value	Unit Unit  Unit  MPa  %  MPa  Unit  Unit	Test Method  ASTM D785  Test Method  ASTM D638  ASTM D638  ASTM D790  Test Method  ASTM D256	
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)  Hardness  Rockwell Hardness (R-Scale)  Mechanical  Tensile Strength <sup>1</sup> (Yield)  Tensile Elongation <sup>2</sup> (Yield)  Flexural Modulus - 1% Secant <sup>3</sup> Impact  Notched Izod Impact  Thermal  Deflection Temperature Under Load (0.4 MPa, Unannealed)  Vicat Softening Temperature	Nominal Value  104  Nominal Value  36.5  8.5  1450  Nominal Value  16  Nominal Value	Unit Unit  Unit  MPa  %  MPa  Unit  Unit  Unit  Unit	Test Method ASTM D785 Test Method ASTM D638 ASTM D638 ASTM D790 Test Method ASTM D256 Test Method	

Injection	Nominal Value	Unit
Processing (Melt) Temp	220 - 240	°C
Mold Temperature	20.0 - 50.0	°C
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	1.3 mm/min	

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