

# SureSpec HP-350

Polypropylene Homopolymer

Genesis Polymers

Message:

HP-350 is a Polypropylene certified prime resin designed for injection molding of lightweight and thin-walled applications. HP-350 combines a good balance of high flow processability with high clarity, short cycling, excellent dimensional stability, good tensile strength and good surface finishing. HP-350 processing temperature is 215° to 235°C with mold at 20°-50°C. HP-350 complies with FDA regulation 21CFR 177.1520 and most international regulations concerning the use of Polypropylene in contact with food.

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Surface Finish		
	High Clarity		
	High Flow		
	High Tensile Strength		
	Homopolymer		
Uses	Thin-walled Parts		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.903	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	83		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	31.7	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	12	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup>	1170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	93.0	°C	ASTM D648
Vicat Softening Temperature	152	°C	ASTM D1525
Injection	Nominal Value	Unit	
Processing (Melt) Temp	215 to 235	°C	
Mold Temperature	20.0 to 50.0	°C	

## NOTE

1.	50 mm/min
2.	50 mm/min
3.	1.3 mm/min

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## Recommended distributors for this material

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