

# SureSpec HP-120NA

Polypropylene Homopolymer

Genesis Polymers

Message:

HP-120NA is a Nucleated Polypropylene certified prime grade designed for injection molding general purpose applications. HP-120NA contains antistatic and combines a good balance of medium-high flow processability with good tensile strength, high stiffness and good contact clarity. HP-120NA recommended processing temperature is between 210° to 230°C with mold at 20°-50°C. HP-120NA complies with FDA regulation 21CFR 177.1520 and with most international regulations concerning the use of Polypropylene in contact with food.

General Information			
Additive	Antistatic		
	Nucleating Agent		
Features	Antistatic		
	Contact Clarity		
	Food Contact Acceptable		
	General Purpose		
	High Flow		
	High Stiffness		
	High Tensile Strength		
	Homopolymer		
	Nucleated		
Uses	General Purpose		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	37.2	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup>	1770	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	35	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	116	°C	ASTM D648

Vicat Softening Temperature	155	°C	ASTM D1525
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 to 230	°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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