

# SureSpec IP-120

Polypropylene Impact Copolymer

Genesis Polymers

Message:

IP-120 is a Medium-Impact injection molded certified prime resin specially designed for applications requiring good impact resistance at low temperatures. IP-120 features very good dimensional stability and processability, excellent heat resistance, medium-high flow for fast mold filling and optimal balance of mechanical properties. Recommended processing temperature is between 210° - 220°C. IP-120 complies with FDA regulation 21CFR 177.1520 (a)(3)(i) / (c)3.1 + 3.2, and with most international regulations concerning the use of Polypropylene in contact with food articles.

General Information			
Features	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Processability		
	High Flow		
	High Heat Resistance		
	Impact Copolymer		
	Low Temperature Impact Resistance		
	Medium Impact Resistance		
Agency Ratings	FDA 21 CFR 177.1520(a) 3 (i)		
	FDA 21 CFR 177.1520(c) 3.1		
	FDA 21 CFR 177.1520(c) 3.2		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	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, Injection Molded)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	24.1	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	13	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup>	1020	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	85.0	°C	ASTM D648
Injection	Nominal Value	Unit	

Processing (Melt) Temp	210 to 220	°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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