

SureSpec HP-120

Polypropylene Homopolymer

Genesis Polymers

Message:

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

General Information			
Features	Contact Clarity		
	Food Contact Acceptable		
	General Purpose		
	High Stiffness		
	High Tensile Strength		
	Homopolymer		
	Medium Flow		
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 ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	35.0	MPa	ASTM D638
Tensile Elongation ² (Yield)	10	%	ASTM D638
Flexural Modulus - 1% Secant ³	1630	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)	97.0	°C	ASTM D648
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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