

SureSpec RP-120C

Polypropylene Random Copolymer

Genesis Polymers

Message:

RP-120C is a clarified injection molding copolymer certified prime resin specially designed for thin-walled applications requiring good impact resistance and excellent clarity. RP-120C exhibits medium-high flow rate, very good dimensional stability and processability, rapid mold filling, fast cycle time, low warpage, and good balance of mechanical properties. RP-120C complies with FDA regulation 21CFR 177.1520 (a)(3)(i) / (c)3.1 + 3.2, and most international regulations concerning the use of Polypropylene in contact with food.

General Information			
Additive	Clarifier		
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Impact Resistance		
	Good Processability		
	High Clarity		
	High Flow		
	Low Warpage		
	Random Copolymer		
Uses	Thin-walled Parts		
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 ³	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)	89		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	28.9	MPa	ASTM D638
Tensile Elongation ² (Yield)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant ³	1170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	87.0	°C	ASTM D648
Vicat Softening Temperature	128	°C	ASTM D1525
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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