

SureSpec HP-200

Polypropylene Homopolymer

Genesis Polymers

Message:

HP-200 is a Polypropylene certified prime resin designed for injection molding of thin-walled lightweight articles. HP-200 combines good balance of good tensile strength with medium-high flow processability high stiffness, short cycling, good LTHS and excellent ESCR. HP-200 recommended processing temperature is between 220° to 240°C with mold at 20°-50°C. HP-200 complies with FDA regulation 21CFR 177.1520 and with most international regulations concerning the use of Polypropylene in contact with food. Specific certificates are available upon request.

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	High ESCR (Stress Crack Resist.)		
	High Flow		
	High Stiffness		
	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	0.905	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	94		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	36.5	MPa	ASTM D638
Tensile Elongation ² (Yield)	8.0	%	ASTM D638
Flexural Modulus - 1% Secant ³	1650	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	27	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	106	°C	ASTM D648
Vicat Softening Temperature	152	°C	ASTM D1525
Injection	Nominal Value	Unit	
Processing (Melt) Temp	220 to 240	°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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