

# SureSpec RP-020

Polypropylene Random Copolymer

Genesis Polymers

## Message:

RP-020 is a certified prime BLOW MOLDING grade developed for containers produced by Extrusion-Blow or Injection-Blow molding equipment. RP-020 is a high purity resin of high melt strength offering optimized melt stability for consistent and easy processability, good core release, high Impact Strength, Stiffness, and high Gloss surfaces. RP-020 complies with FDA regulation 21CFR 177.1520 (a)(3)(i) (c)3.1+3.2, and most international regulations concerning Polypropylene use in contact with food.

General Information			
Features	Food Contact Acceptable		
	Good Melt Strength		
	Good Mold Release		
	Good Processability		
	Good Stiffness		
	High Gloss		
	High Impact Resistance		
	High Melt Stability		
	High Purity		
	Random Copolymer		
Uses	Containers		
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	Extrusion Blow Molding		
	Injection Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.902	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	84		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	29.6	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	11	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup>	1100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	87.8	°C	ASTM D648
Vicat Softening Temperature	135	°C	ASTM D1525
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

