

SureSpec HP-020

Polypropylene Homopolymer

Genesis Polymers

Message:

HP-020 is a Homopolymer certified prime grade designed for extrusion of sheet for thermoforming processes. HP-020 contains a nucleating agent featuring high clarity and excellent melt strength. HP-020 complies with FDA regulation 21CFR 177.1520(c) 3.2a concerning the Polypropylene use in contact with food articles.

General Information	
Additive	Nucleating agent
Features	Nucleated
	Homopolymer
	Good melt strength
	Definition, high
	Compliance of Food Exposure
Uses	Sheet
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a
Forms	Particle
Processing Method	Sheet extrusion molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	0.901	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	35.2	MPa	ASTM D638
Tensile Elongation ² (Yield)	10	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	1590	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	69	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	103	°C	ASTM D648
Vicat Softening Temperature	145	°C	ASTM D1525

Additional Information

Test made on injection molded Type 1 tension test specimen according to ASTM D 2146.

NOTE

1.	50 mm/min
2.	50 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

