

# SureSpec GS-015

General Purpose Polystyrene

Genesis Polymers

Message:

GS-015 is a High Molecular Weight certified prime resin developed for use in taste & odor sensitive applications. GS-015 is designed for easy processability of extrusion-thermoforming foamed sheet and offers high melt viscosity, excellent clarity, very low residual volatiles, good cell structure formation, and high heat resistance to provide excellent performance in hot food packaging. GS-015 complies with FDA regulation 21CFR 177.1640 and with most international regulations concerning the use of Polystyrene in contact with food.

General Information	
Features	Food Contact Acceptable
	Good Processability
	High Clarity
	High Heat Resistance
	High Molecular Weight
	High Viscosity
	Low Residuals
	Low to No Odor
	Low to No Taste
Uses	Food Packaging
	Sheet
Agency Ratings	FDA 21 CFR 177.1640
Forms	Pellets
Processing Method	Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, Injection Molded)	78		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2960	MPa	ASTM D638
Tensile Strength <sup>1</sup> (Yield)	52.4	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	1.5	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup>	2960	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	16	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	100	°C	ASTM D648
Vicat Softening Temperature	107	°C	ASTM D1525

#### NOTE

1. 51 mm/min
2. 51 mm/min
3. 1.3 mm/min

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