

SureSpec GS-025

General Purpose Polystyrene

Genesis Polymers

Message:

GS-025 is a High Molecular Weight certified prime grade specially developed for use in foamed sheet extrusion for packaging applications. GS-025 is designed for injection molding and extrusion applications requiring high tensile strength, high heat resistance and high stiffness. GS-025 offers good-flow processability, good dimensional stability and excellent clarity of molded articles. GS-025 complies with FDA regulation 21CFR 177.1640 and with most international regulations concerning the use of Polystyrene in contact with food articles.

General Information			
Features	Foamable		
	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Flow		
	High Clarity		
	High Heat Resistance		
	High Molecular Weight		
	High Stiffness		
	High Tensile Strength		
Uses	Foam		
	Packaging		
	Sheet		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3310	MPa	ASTM D638
Tensile Strength ¹ (Yield)	53.8	MPa	ASTM D638
Tensile Elongation ² (Break)	1.3	%	ASTM D638
Flexural Modulus - 1% Secant ³	3600	MPa	ASTM D790
Flexural Strength (23°C, Injection Molded)	179	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (3.18 mm, Injection Molded)	11	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	98.0	°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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