

SureSpec GS-100

General Purpose Polystyrene

Genesis Polymers

Message:

GS-100 is a High Impact Polystyrene certified prime grade specially developed for injection molding applications requiring high surface Scuff resistance. GS-100 offers high-flow processability, excellent uniformity and consistency of melt viscosity, fast cycling, superior Flexural strength and optimal Toughness of molded articles for improvement of flexural and toughness properties. GS-100 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	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Abrasion Resistance		
	Good Toughness		
	High Flow		
	High Impact Resistance		
	High Strength		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	10	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	3130	MPa	ASTM D638
Tensile Strength ¹ (Yield)	47.6	MPa	ASTM D638
Tensile Elongation ² (Break)	1.3	%	ASTM D638
Flexural Modulus - 1% Secant ³	3500	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)	82.0	°C	ASTM D648
Vicat Softening Temperature	93.0	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	1.3 mm/min		

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