

SureSpec GS-080

General Purpose Polystyrene

Genesis Polymers

Message:

GS-080 is an easy processing general purpose certified prime grade resin specially developed for injection molding general purpose applications. GS-080 offers good balance of processability and high heat properties. GS-080 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	Food Contact Acceptable		
	General Purpose		
	Good Processability		
	High Heat Resistance		
Uses	General Purpose		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	8.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	75		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	2960	MPa	ASTM D638
Tensile Strength ¹ (Yield)	44.8	MPa	ASTM D638
Tensile Elongation ² (Break)	2.0	%	ASTM D638
Flexural Modulus - 1% Secant ³	3030	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)	101	°C	ASTM D648
Vicat Softening Temperature	105	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	1.3 mm/min		

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