

SureSpec GS-140

General Purpose Polystyrene

Genesis Polymers

Message:

GS-140 is a multipurpose low molecular weight certified prime grade resin specially developed for injection molding thin-wall applications that require easy mold filling and good overall properties. GS-140 offers superior flexural strength, outstanding clarity, exceptional high-flow processability, fast injection cycling, fast filling long flow paths of intricate mold geometry with minimal stresses in moldings. GS-140 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 Moldability		
	High Clarity		
	High Flow		
	High Strength		
	Low Molecular Weight		
Uses	Thin-walled Parts		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	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)	14	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	75		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2900	MPa	ASTM D638
Tensile Strength ¹ (Yield)	42.1	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)	87.0	°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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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

