CERTENE™ SGM-140

General Purpose Polystyrene

Muehlstein

Message:

SGM-140 is a certified prime grade specially developed for INJECTION MOLDING thin-wall applications requiring easy mold filling and good overall properties. SGM-140 is a multipurpose low molecular weight resin that 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. SGM-140 applications include thin-walled containers, cutlery, vials, jars, tumblers, disposable medical ware, audio and video cassette boxes, and toys. SGM-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				
	Good Processability				
	High Clarity				
	High Strength				
	Low Molecular Weight				
Uses	Audio Tapes				
	Disposable Tableware				
	Medical/Healthcare Applications				
	Thin-walled Containers				
	Toys				
	Vials				
	Video Cassettes				
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)	14	g/10 min	ASTM D1238		
Hardness	Nominal Value	Unit	Test Method		
Rockwell Hardness ¹ (R-Scale)	75		ASTM D785		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus (Injection Molded)	2900	MPa	ASTM D638		
Tensile Strength ² (Yield, Injection Molded)	42.1	MPa	ASTM D638		
Tensile Elongation ³ (Break, Injection Molded)	2.0	%	ASTM D638		
Flexural Modulus - 1% Secant ⁴ (Injection Molded)	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, Injection Molded)	87.0	°C	ASTM D648
Vicat Softening Temperature ⁵	93.0	°C	ASTM D1525
NOTE			
1.	Injection molded		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	1.3 mm/min		
5.	Injection molded		

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