

CERTENE™ SGM-170

General Purpose Polystyrene

Channel Prime Alliance

Message:

SGM-170 is a certified prime high flow GPPS grade and is excellent over intricate molds and thin wall applications. It is optimal for high injection molding cycles. SGM-170 complies with FDA regulation 21CFR 177.1640 and with most international regulations concerning the use of Polystyrene in contact with food.

General Information			
Features	Workability, good		
	High liquidity		
	Compliance of Food Exposure		
Uses	Cup		
	Toys		
	Disposable wine set		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	17	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	2760	MPa	ASTM D638
Tensile Strength (Break, Injection Molded)	33.1	MPa	ASTM D638
Tensile Elongation (Break, Injection Molded)	2.0	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	2960	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (mm, injection molding)	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	73.9	°C	ASTM D648
Vicat Softening Temperature	81.1	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Transmittance	90.0	%	ASTM D1003

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